

Service Manual

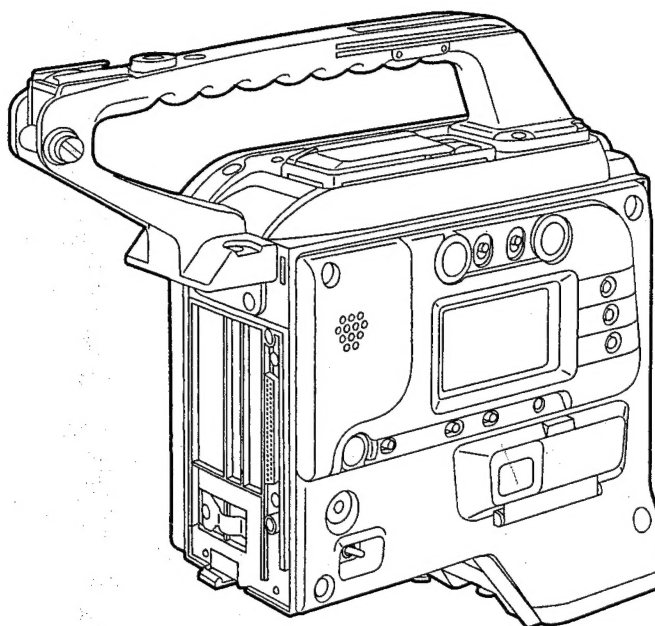
Vol. 1

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DVCPRO 50

Digital Video Cassette Recorder

AJ-D90P



Panasonic®

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which allow service personnel to understand and service the Digital Video Cassete Recorder AJ-D90P

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Vol.1

Section1	Operating Instructions
Section2	Schematic Diagrams
Section3	Circuit Board Diagrams
Section4	Exploded Views & Parts List

Specifications

[GENERAL]

Power supply:	DC 12 V (11.0 V to 17.0 V)
Power consumption:	16.5 W

Operating ambient temperature:

32°F to 104°F (0°C to 40°C)

Storage temperature:

-4°F to 140°F (-20°C to 60°C)

Operating ambient humidity:

Less than 85% (relative humidity)

Weight:

6.16 lb (2.8 kg) (including main unit and grip)

Dimensions (W×H×D) (including grip):

5 1/2"×10 15/16"×12 1/16" (139.5×277×305 mm)

[MAIN UNIT]

VIDEO (during playback using standard player)

Bands:

Y: 30 Hz to 5.75 MHz +1.0 dB/-3.0 dB

PB/PR: 30 Hz to 2.75 MHz +1.0 dB/-3.0 dB

S/N ratio:

Better than 55 dB

K factor (2T pulse):

Less than 2%

Y/C delay:

Less than 20 ns

AUDIO (during playback using standard player)

Sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits

Frequency response:

20 Hz to 20 kHz ±1.0 dB

(At reference level with OFF for MIC LOWCUT on setting menu)

Dynamic range:

Better than 85 dB (at 1 kHz, AWTD)

Distortion:

Less than 0.1% (at 1 kHz, reference level)

Wow and flutter:

Below measurable limits

Headroom:

20 dB

Emphasis:

T1 = 50 μs., T2 = 15 μs. (on/off selectable)

Specifications

CONNECTORS

■ Input

AUDIO IN CH1/CH2 (XLR, 3 pins, female):

MIC/LINE switchable

MIC: -60/-50/-40 dBu, balanced/unbalanced,
3 k Ω (menu setting possible)

LINE: -6/0/+4 dBu, balanced, 10 k Ω (menu setting possible)

TIME CODE IN (BNC):

0.5 V to 18 V_{P-P}, high impedance

■ OUTPUT

VIDEO OUT (BNC):

1.0 V_{P-P}, 75 Ω

AUDIO OUT (XLR, 3-pin, male):

+4 dBu, balanced, low impedance, CH1/CH2/MIX selectable

TIME CODE OUT (BNC):

1.5 V_{P-P}, low impedance

AUDIO CH1/CH2 OUT (12-pin):

-20 dBu, unbalanced, low impedance

PHONES (stereo mini jack \times 1)

OTHER

DC IN socket (XLR, 4-pin, male):

DC 11V to 17V

DC OUT (4-pin):

DC 11V to 17V, 0.1A maximum absolute rating

Camera interface (68-pin):

Interfaces other than 68-pin models supported by adaptor

TAPE TRANSPORT SYSTEM

Tape used:

1/4-inch DVCPRO M cassette tape

Tape speed:

67.640 mm/s (at 50 Mbps)

33.820 mm/s (at 25 Mbps)

Recording/playback time:

Approx. 33 min. (at 50 Mbps, using AJ-P66MP)

Approx. 66 min. (at 25 Mbps, using AJ-P66MP)

FF/REW time:

Approx. 3 min. (using AJ-P66MP)

[ACCESSORIES]

Screws (\times 2) for mounting camera

Support for Anton Bauer products

Battery bracket (\times 1)

Screws (\times 4) for battery bracket

Battery bracket fitting (\times 1)

Screws (\times 4) for battery bracket fitting

Support for Sony products

Screws (\times 4) for NP-1

[RELATED DEVICES]

■ Power supply related devices

Battery packs:

AU-BP220, AU-BP402

Battery chargers:

AG-B425 (for charging AU-BP220 and AU-BP402 battery packs)

Battery case:

AU-M402H

AC adaptor:

AJ-B75

■ Video cassette tapes

M size cassette tape exclusively for DVCPRO

■ Connecting cable

Multi-connector cable:

SHAN-C12TCA

■ Audio devices

Wireless microphone receiver:

WX-RA700

■ Maintenance products

Cleaning tape:

AJ-CL12MP

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

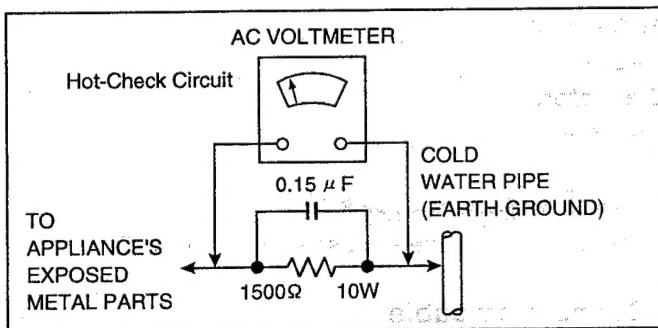


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5K\Omega$, 10W resistor, in parallel with $0.15\mu F$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed. CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltagemeter.

3. Measure the High Voltage. The meter (electric type) reading should indicate $2.5kV, \pm 0.15kV$. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

CAUTION:

**TO REDUCE THE RISK OF FIRE OR SHOCK
HAZARD AND ANNOYING INTERFERENCE,
USE THE RECOMMENDED ACCESSORIES
ONLY.**

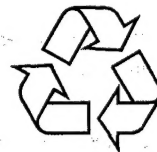
WARNING:

**TO REDUCE THE RISK OF FIRE OR SHOCK
HAZARD, DO NOT EXPOSE THIS EQUIPMENT
TO RAIN OR MOISTURE.**

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.


This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



ATTENTION:

The product you have purchased is powered by a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Replace battery with parts No. CR2032 or BR2032. Use of another battery may present a risk of fire or explosion.
Caution—Battery may explode if mistreated.
Do not recharge, disassemble or dispose of in fire.

 indicates safety information.

For your safety

■ DO NOT REMOVE PANEL COVER BY UNSCREWING.

To reduce the risk of the electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Lithium Battery

Warning

The lithium battery in this equipment must only be replaced by qualified personnel. When necessary, contact your local Panasonic supplier.

"The lithium battery is a critical component (type number CR2032 manufactured by Panasonic).

It must never be subjected to excessive heat or discharge. It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacturer. They must be fitted in the same manner and location as the original battery, with the correct polarity connections observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose. It should be disposed of in waste products destined for burial rather than incineration."

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kasserera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Eksplussionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

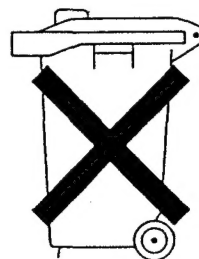
VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

Attention/Attentie

- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.
- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



SECTION 1

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OPERATING INSTRUCTIONS

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Operating precautions

Vibration

Avoid using the unit in a location susceptible to frequent vibration.

Ambient temperature

This unit is designed to operate in an ambient temperature range of 0 to +40 degrees Celsius. Take care not to operate it outside this range since this may cause changes in the unit's compatibility specifications, the unit may not operate properly and the service life of the unit will be shortened.

Rain, humidity and dust

Refrain from operating the unit in the rain or under very humid conditions since condensation will form inside the unit and cause malfunctioning.

Introduction

This is a DVCPRO format dockable VTR which features compression technology.

The recording rate can be switched to 50 Mbps for a higher picture quality or 25 Mbps for a longer recording duration.

Using the 50 Mbps rate, pictures with an extremely high quality can be recorded.

Features

Digital system

The unit uses a component digital recording system which incorporates the latest compression technology featuring non-compression PCM recording for the sound. It achieves an excellent S/N ratio, frequency band, waveform characteristics and reproduction characteristics in the very finely detailed parts, and it improves both the picture quality and sound quality as well.

Two switchable settings of 50M/25M
One of two settings, 50 Mbps or 25 Mbps, for recording and playback can be selected.

Rec review function

This function automatically rewinds and plays back the length of tape equivalent to the last two seconds recorded so that the recording can be checked out quickly.

Playback functions

The playback images (in black and white) can be monitored on the viewfinder screen. It is also possible to view these images in color on a color monitor from the unit's VIDEO OUT connector.

Bear in mind that using the unit in very dusty locations will cause dust to enter inside, causing a deterioration in the unit's characteristics.

Handling

Do not drop the unit or subject it to a strong impact since this will cause malfunctioning. Do not place any objects inside the unit while the cassette holder is raised.

Strong electric and magnetic fields

Bear in mind that the picture and/or sound may be disturbed when the unit is used in an extremely strong electric or magnetic field.

Features

Back-space assemble recording

Simply by pressing the VTR START button or VTR button on the lens, back-space assemble recording is ensured with an accuracy of within one frame.

Warning system to indicate status of VTR unit

The operator is alerted of VTR trouble, tape-end, no battery charge, etc. by warning lamps and a warning tone.

Warning mechanism

This mechanism is activated when the cylinder servo or capstan servo is disturbed, the tape has become slack or stopped, or condensation has formed to alert the operator by lamps and a warning tone.

Setting menu function

The unit is set to the standard mode when it leaves the manufacturing plant so that it is ready for immediate use.

The unit comes with a function enabling its settings to be changed using setting menus: this makes it possible for the user to build a system which is even more convenient to use.

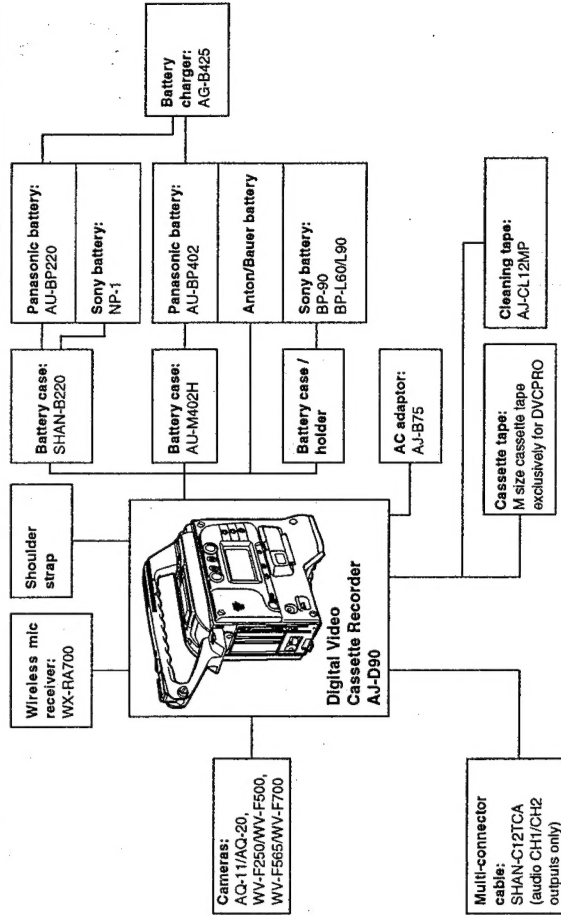
Phantom power supply

Phantom power (+48V) can be supplied to the CH1 and CH2 audio inputs.

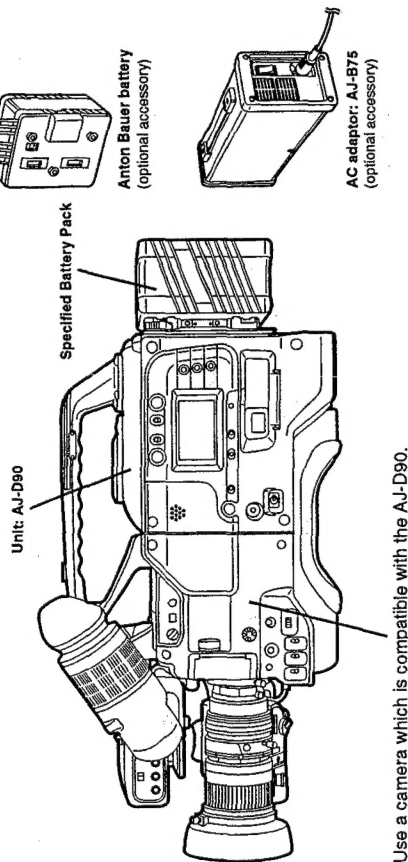
Mode display lamps

Lamps are provided to indicate the operating mode of the unit— whether play, fast forward, rewind or recording.

System configuration



Configuration



Use a camera which is compatible with the AJ-D90.

Cameras which can be docked with this unit

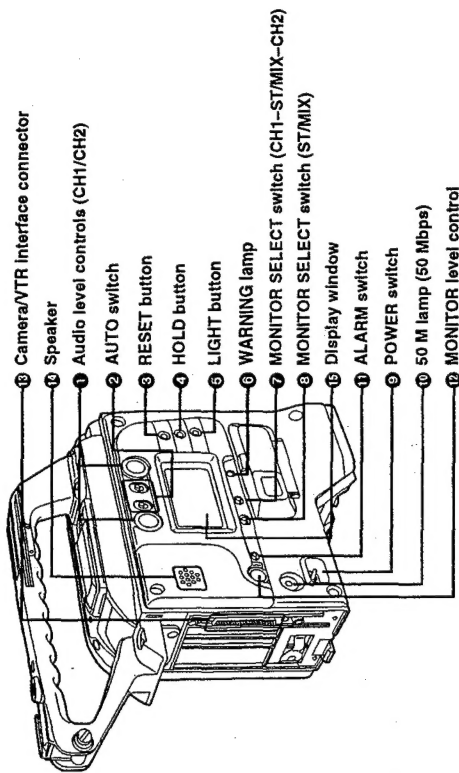
• AQ-11 (Note 1)	• AQ-20 (Note 1)
(made by Matsushita Electric Industrial Co., Ltd.)	
• WC-F250 (Note 2)	• WV-F500, • WV-F565,
• WV-F700S (Note 3)	
(made by Matsushita Communication Industrial Co., Ltd.)	

(Note 1) When the AQ-11 or AQ-20 is to be used, connect the STEN-IF45HDL camera docking adaptor.

(Note 2) When the WV-F250 is to be used, the composite video signal will not be output from the video output connector during recording.

(Note 3) The WV-F70 cannot be used.

Parts and their functions



1 Audio level controls (CH1/CH2)

To adjust the audio levels, observe the level meter while turning the CH1 (CH3; see Note 1) and/or CH2 (CH4; see Note 1) controls. Use the controls to adjust the input volume of each channel.

Note 1:

In the 50 Mbps mode, the same sound is recorded on CH3 as on CH1 and on CH4 as on CH2.

2 AUTO switch

ON: The CH1 and CH2 recording levels are adjusted automatically. At this position, the audio level controls do not function.

OFF: The CH1 and CH2 recording levels can be set manually.

3 RESET button

This clears the display to zero when it is pressed while the display window is in the counter or TCG (time code generator) setting mode.

4 HOLD button

When this button is pressed, the data indicated in the counting area of the display window is retained. When it is pressed again, the mode is released.

5 LIGHT button

Each time this button is pressed, the LCD (liquid crystal panel) lighting is turned ON or OFF.

6 WARNING lamp

This lamp lights or flashes when an error has occurred.

7 MONITOR SELECT switch (CH1-ST/MIX-CH2)

This is used to select the sound of the speaker 2, PHONE jack 3 or AUDIO OUT connector 4.

CH1: The CH1 sound can be monitored.

ST/MIX: The sound selected using switch 9 can be monitored.

CH2: The CH2 sound can be monitored.

9 MONITOR SELECT switch (ST/MIX)

This is used to select the sound of the PHONE jack 3.

ST (STEREO):

The sound of PHONE jack 3 is set to stereo. The sounds of speaker 2 and AUDIO OUT connector 4 are mixed and output.

MIX: All the sounds are mixed.

9 POWER switch

This switch turns the power of the camera and unit ON and OFF.

10 50 M lamp (50 Mbps)

This lamp lights when the unit is used in the DVCPRO 50 Mbps mode.

11 ALARM switch

Set this to ON if the warning tone is to be sounded.

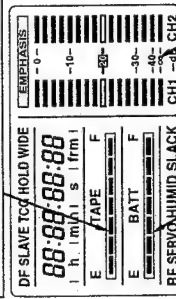
12 MONITOR level control

This control is used to adjust the volume for audio monitoring. The volume of the warning tone cannot be controlled.

Parts and their functions

- 10 Camera/VTR interface connector (68-pin)**
The camera and unit are docked using this connector.
- 11 Speaker**
The sound can be monitored through this speaker.
- When an earphone is connected to PHONE jack ⑪, the sound through the speaker is automatically cut off.
 - The warning tone is sounded as the WARNING lamp flashes.
 - The channel whose sound is to be monitored is selected using the MONITOR SELECT switch ⑦.
- 12 Display window**
- What is indicated on the display window
 - Remaining battery charge, volume level

Remaining tape display
While more than 30 minutes of tape remain, all 7 segments are lighted up to the "F" position. Once the remaining recording time on the tape reaches 30 minutes, one segment goes off each time the tape length is reduced by 5 minutes.

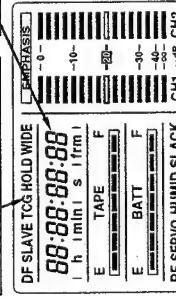


Remaining battery charge display

Audio channel level meter

Displays relating to unit's operation or status

Display lights
DF/SLAVE/TCG/HOLD/WIDE



Warning displays

RF: This lights when the video heads are clogged.

SERVO: This lights when the servo is disturbed.

HUMID: This lights when condensation has formed on the head drum.

SLACK: This lights when trouble in the tape take-up occurs.

For further details, refer to "Warning system" (on page 35).

Displays relating to the time code

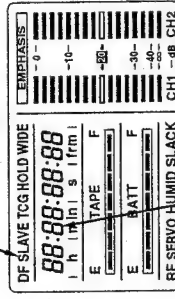
This lights when a time code, CTL or real time is displayed.

DF: This lights when the drop frame mode is established.

SLAVE: This lights while the unit is locked to an external time code.

HOLD: This lights when the time code generator value is held. (It lights when the HOLD button has been pressed.)

WIDE: This lights when a tape is recorded or played back with an aspect ratio of 16:9.



Time counter display
This indicates the time code, CTL, user's bit and real time.

- Refer to the next section for the correlation between the items displayed and switch settings.

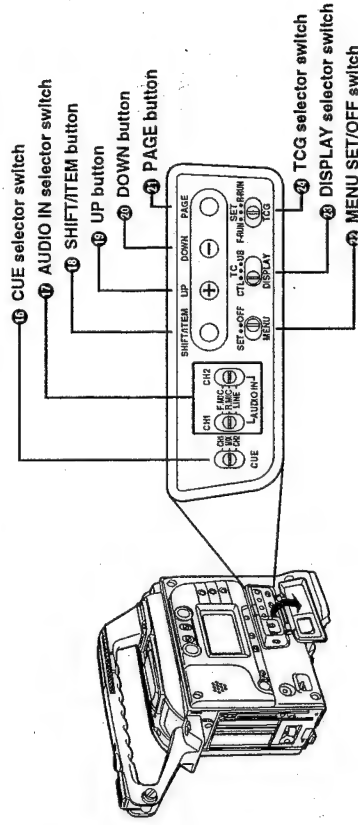
Correlation between the setting positions of the TCG and DISPLAY selectors and time counter displays

As far as the time counter display is concerned, what item is to be displayed is determined by the TCG selector switch setting and then by the DISPLAY selector switch setting.

Time code-related switch settings and display items

TCG selector switch position	DISPLAY selector switch position	Item displayed
SET	TC or CTL	Time code
	UB	User's bit
F-RUN or R-RUN	CTL	CTL
	TC	Time code
	UB	User's bit

Parts and their functions



13 CUE selector switch

This is used to select the signal which is to be recorded on the cue track.

CUE: The CH1 signal is recorded.

MIX: The CH1 and CH2 mixed signal is recorded.

CH2: The CH2 signal is recorded.

14 AUDIO IN selector switch

This is used to select the CH1 and CH2 audio input.

F.MIC: Set here when recording the audio signals from a microphone which has been plugged into the camera.

R.MIC: Set here when recording the mic input signals from the AUDIO IN CH1/CH2 connectors.

LINE: Set here when recording the line input signals from the AUDIO IN CH1/CH2 connectors.

15 SHIFT/ITEM button

Each time this button is pressed, the cursor moves on the setting menu page now displayed. It is used to select a setting item.

<Note>

This switch functions differently depending on which item is to be operated. Check with the menu operations for each item.

16 UP button

Each time this button is pressed, the setting of the item selected on the setting menu is incremented to the next level up, or ON or OFF is selected for the setting.

17 DOWN button

Each time this button is pressed, the setting of the item selected on the setting menu is decremented to the next level down, or ON or OFF is selected for the setting.

18 PAGE button

This is used to select the setting menu page.

19 MENU SET/OFF switch

This is used to select the setting menu display.

SET: The setting menu is displayed on the viewfinder screen and on the display unit connected to the VIDEO OUT connector. (The page where the last setting menu operation was completed is displayed. When performing a menu operation for the first time, the first page which can be displayed is displayed.)

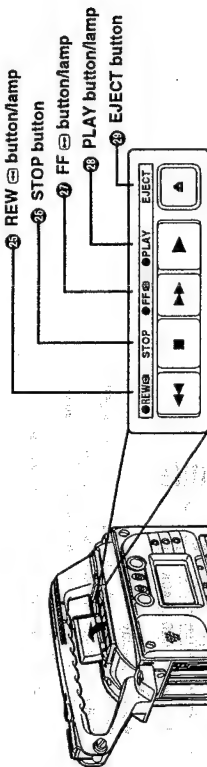
OFF: The setting menu is not displayed on the viewfinder screen or on the display unit connected to the VIDEO OUT connector.

20 DISPLAY selector switch

CTL: Set to this position when the CTL counter is to be displayed on the display window.

TC: Set to this position when the time code data setting is to be performed or when the time code is to be displayed on the display window.

UB: Set to this position when the user's bit data setting is to be performed or when the user's bit is to be displayed on the display window.



26 TCG selector switch

This is used to set the running mode of the internal time code generator.

F-RUN: This position is used to run the time code continuously regardless of the unit's operation. Set here to set the time code according to the real time or externally lock the time code.

SET: Set to this position when the time code or user's bit is to be set.

R-RUN: Set to this position to run the time code only during recording. The time code on a tape will be recorded continuously in back-space assembly recording.

25 REW button/lamp

Press this button to rewind the tape. Its lamp lights during rewinding. When it is pressed during play, the review search mode is established during which the tape is rewound at approximately 2x (25 Mbps: approx. 4x) the normal tape speed.

27 STOP button

Press this button to stop the unit.

28 FF button/lamp

Press this button to fast forward the tape. Its lamp lights during fast forwarding. When it is pressed during play, the cue search mode is established during which the tape is fast forwarded at approximately 2x (25 Mbps: approx. 4x) the normal tape speed.

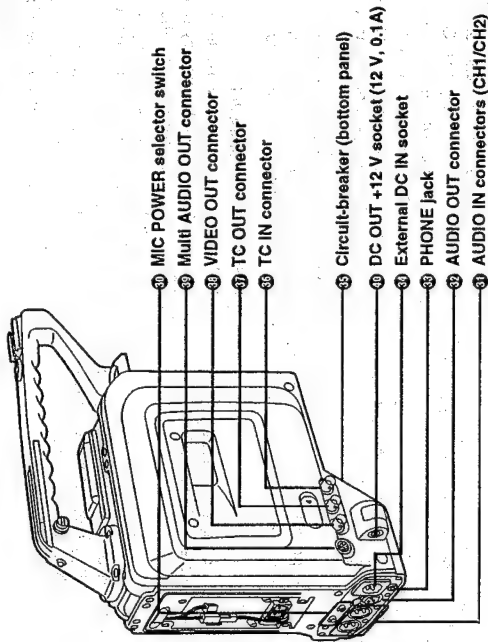
23 PLAY button/lamp

Press this button to set the unit to the play mode. Its lamp lights in this mode.

When it is pressed again during play, play is paused, and its lamp goes off. The stop mode is automatically established after the unit has been kept in the pause status for 2 minutes.

25 EJECT button

Press this button to eject the cassette tape.



23 MIC POWER selector switch

This sets the supply of phantom power (+48 V) to the rear microphone.

OFF: The phantom power is not supplied.

ON: The phantom power is supplied.

No power will be supplied unless AUDIO IN selector switch 17 has been set to R.MIC.

<Note>

Setting the MIC POWER selector switch to ON and using a microphone which does not support a +48V power supply may cause the microphone to malfunction.

24 AUDIO IN connectors (CH1/CH2)

External microphones or the line input signals are connected to these connectors.

25 AUDIO OUT connector

This is connected to an audio component. The audio channel is coupled with MONITOR SELECT switch 7 and switched. However, MIX signals are output even when MONITOR SELECT switch 8 is set to ST (STEREO).

26 PHONE jack

This is the earphone jack which is used for monitoring the sound. Stereo signals are output when MONITOR SELECT switch 8 is set to ST (STEREO). When the earphone is connected, the sound through speaker 19 is automatically cut off.

24 External DC IN socket

This is the input socket for the external power supply. The AC adaptor is connected here, and when it is connected, the power is automatically supplied from the external source.

25 Circuit-breaker (bottom panel)

This shuts off the power when trouble has occurred.

26 TC IN connector

This is used to connect an external time code generator to record an external time code.

27 TC OUT connector

This is used to output the time code to another VTR.

28 VIDEO OUT connector

This is the output connector of the composite video signal.

29 Multi AUDIO OUT connector

The CH1 and CH2 audio signals are output separately.

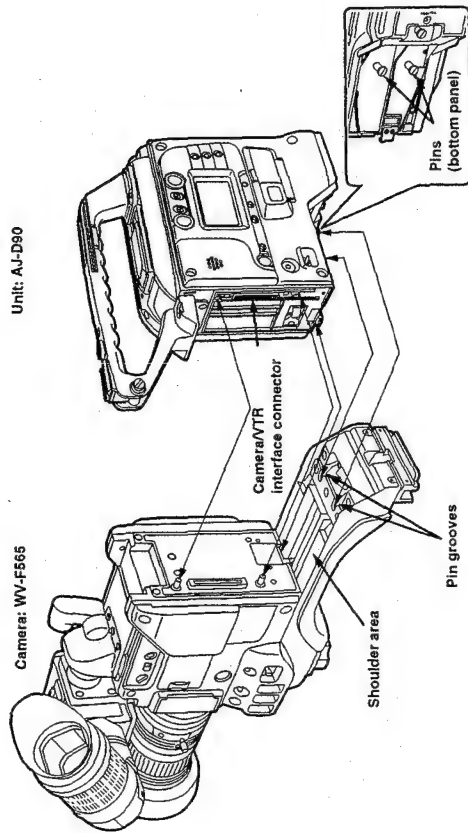
30 DC OUT +12V socket (12V, 0.1A)

A +12V DC voltage is supplied from this socket to an externally connected component.

Assembling the camera

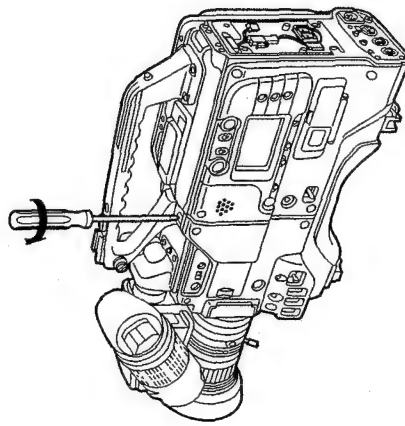
- 1 Slide the unit into the camera's shoulder area. Then connect the camera/VTR interface connector.

Check that the pins are mated with the pin grooves.



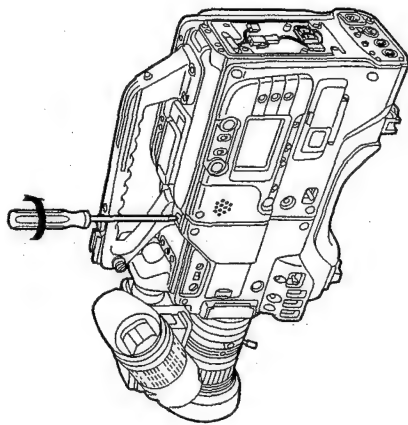
- 2 Turn the screw in the grip to secure the unit to the camera.

Refer to the camera's Instruction Manual for the lens assembly procedure.

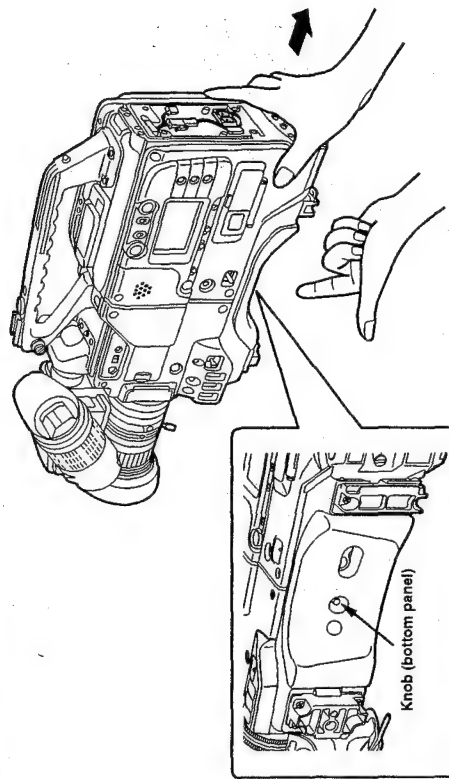


Disassembling the camera

- 1 Unscrew the screw in the grip.



- 2 Pull the unit in the direction shown by the arrow while at the same time pressing the knob on the camera's bottom panel in the direction of the arrow.



Power supply

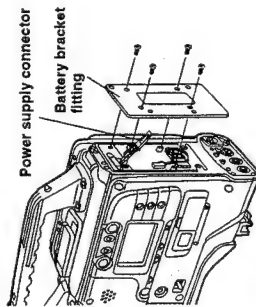
Either a battery pack or AC power may be used to power this unit.
Battery packs are available from three manufacturers: Panasonic, Anton Bauer and Sony.

Before starting to use a battery pack, use the battery charger to charge it.
• For details on the charging methods, refer to the Instruction Manual of the battery pack concerned.

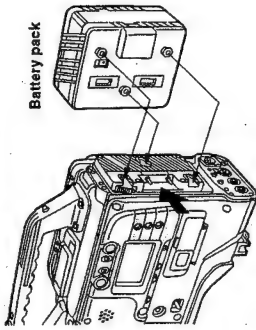
Using a battery pack made by Anton Bauer

<Note>
The unit's power must be turned off before proceeding.

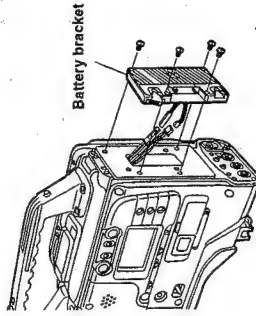
- 1 Mounting the battery bracket fitting
Remove the power supply connector and mount the battery bracket fitting.



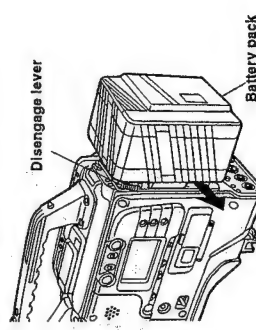
- 3 Mounting the battery pack
Insert the terminals, and then slide the battery pack in the direction shown by the arrow.



- 2 Attaching the battery bracket
Connect the power supply connector and attach the battery bracket.



- 4 Removing the battery
With the battery holder disengage lever all the way down, slide the battery pack in the direction shown by the arrow.



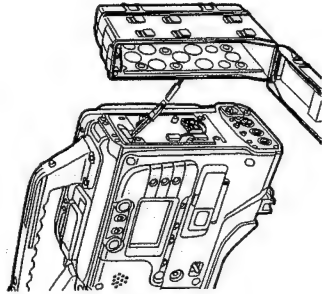
<Notes>
This battery pack supports the intelligent battery system/ultra-light system.
Automatic sensing of the intelligent battery system is possible when the remaining battery charge is higher than 10%, at which time the remaining charge is displayed inside the viewfinder in the form of a number (percentage). A voltage display appears if the power is turned on when the remaining battery charge is lower than 10%. After intelligent battery sensing, the intelligent display appears for the remaining battery charge even if power is supplied from an external source.

Power supply

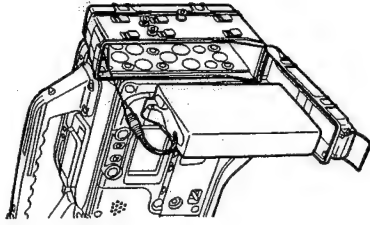
Using the AU-BP402 battery pack made by Panasonic

<Note>
The unit's power must be turned off before proceeding.

- 1 Connect the connector on the AU-M402H battery case to the unit's connector.

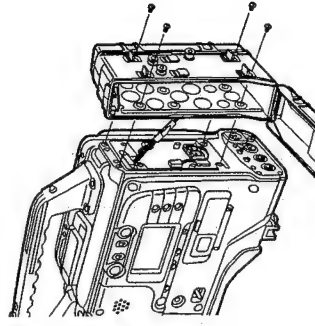


- 3 Connect the plug on the battery pack with the terminal inside the case, and fit the battery pack inside the case.



- 2 Attach the AU-M402H battery case.
When the battery case cover is opened and lifted the rubber caps, some screws holes will be visible. Tighten up the screws using a screwdriver to attach the case to the unit. Tighten up the screws as far as they will go.

<Notes>
• Do not pull the rubber caps forcefully.
• Mount the case while taking care not to sandwich the connecting cord between the battery case and unit.



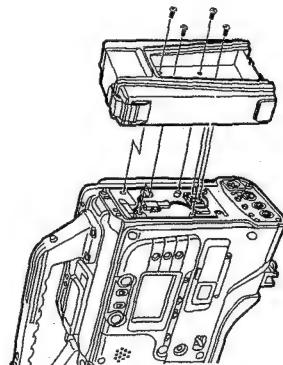
Power supply

Using the BP-90 battery pack made by Sony

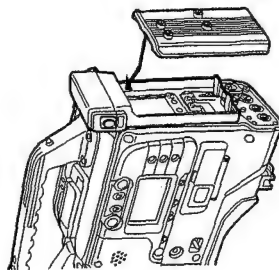
<Note>
The unit's power must be turned off before proceeding.

- 1 Use screws to mount the battery case with its cover removed.

<Note>
Mount the case while taking care not to sandwich the cord.

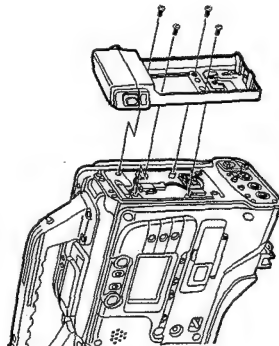


- 3 Insert the top of the cover in the direction shown by the arrow.

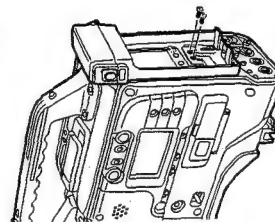


- 1 Use screws to mount the battery case with its cover removed.

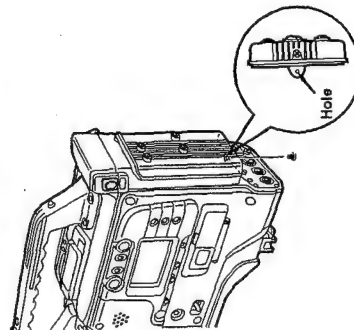
<Note>
Mount the case while taking care not to sandwich the cord.



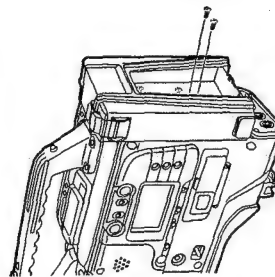
- 2 Tighten the power contact screw.



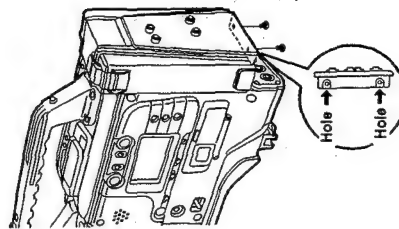
- 4 Align the hole in the bottom (metal part) of the cover with the hole on the bottom of the case, and attach the two part using the screw.



- 2 Tighten the power contact screw.



- 4 Align the holes in the bottom (metal part) of the cover with the holes on the bottom of the case, and attach the two part using the screws.



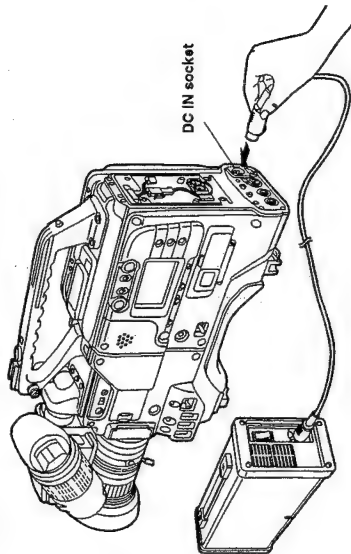
Power supply

Using AC power (with the AJ-B75 AC adaptor)

<Note>

The unit's power must be turned off before proceeding.

- 1 Connect the DC OUT connector on the AJ-B75 AC adaptor with the unit's external DC IN socket.



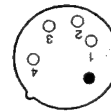
- 2 Set the AC adaptor's power to ON.

- 3 Set the unit's POWER switch to ON.

<Notes>

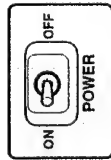
- Check the pin signals of the external DC IN socket when using an external power supply other than through the AJ-B75 AC adaptor.
- When both a battery pack and the AC adaptor are connected, precedence is given to power from the AC adaptor.
- When the AC adaptor is used, be absolutely sure to set its power to ON first, and then set the unit's POWER switch to ON. If this sequence is reversed, the output voltage of the AC adaptor will slowly rise, possibly causing the unit to malfunction.

Pin No.	Signal
1	GND
2,3	—
4	+12V



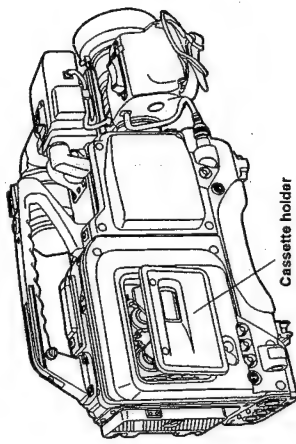
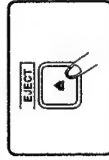
Inserting and ejecting the cassette tape

- 1 Set the POWER switch to ON.



- 2 Press the EJECT button.

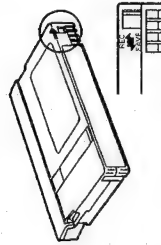
The cassette holder now opens.



Tips on handling cassette tapes

■ When recording

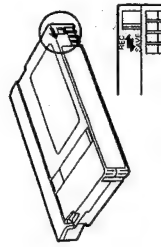
Check the position of the cassette tape's accidental erasure prevention knob. Set this knob, which is located on the back of the cassette, to the REC position.



When recording, set the accidental erasure prevention knob to REC.

■ To avoid the accidental erasure of important recordings

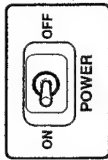
Set the cassette tape's accidental erasure prevention knob to SAVE in order to prevent a recording on the tape from being accidentally erased.



To avoid the accidental erasure of important recordings, set the accidental erasure prevention knob to SAVE.

Regular recording

1 Set the POWER switch to ON.



2 Set the camera's DC POWER switch to OFF → SAVE → ON in this sequence and pause slightly at each setting before proceeding.

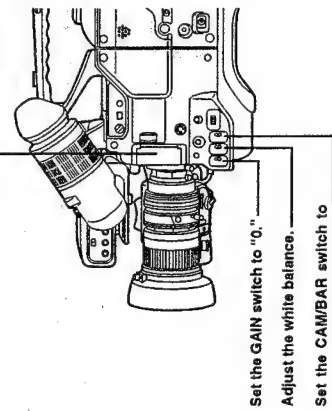
<Note>
If the unit's POWER switch is set to ON when the camera's DC POWER switch is already set to ON, the camera's protection circuitry may be activated. Under these circumstances, normal operation is ensured by setting the camera's DC POWER switch to OFF and then back to ON.

3 Insert the cassette tape.

Before recording, ensure that the cassette tape's accidental erasure prevention knob has been set to the REC position.

4 Set the camera's switches to the positions indicated below.

Set the filter to the position matching the light source.



5 Point the camera at the subject, and adjust the focus and zoom.

6 Press the camera's VTR START/STOP button to start recording.

The REC tally lamp inside the viewfinder flashes until the recording mode is established. When recording commences, it stops flashing and remains lighted.

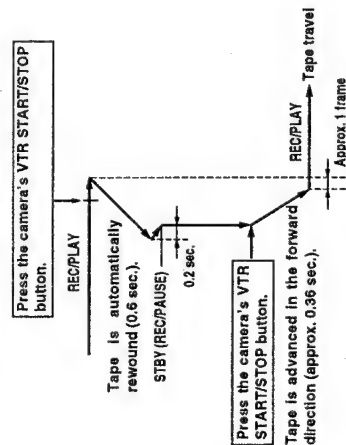
7 Press the camera's VTR START/STOP button to stop recording.

<Notes>

In the rec pause mode, the tape is sent in the reverse direction by 1 frame every 2 minutes in order to protect the tape and cylinder heads. When the rec pause mode continues for more than a maximum of 30 minutes, the save mode is established.

When recording is suspended, the tape is rewound by about 18 frames (0.6 sec.), advanced by 6 frames in the forward direction, and the rec pause mode is established, as is shown in the figure below.

When recording is resumed, the tape is played for the equivalent of about 11 frames, and recording starts with one frame or so overlapped.

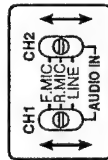


• When the time code selector switch has been set to R-RUN, the time code signal is recorded continuously.

Sound recording

1 Select the desired input signals using the audio input selector switch.

In the 50 Mbps mode, the same sound is respectively supplied to CH1 and CH3 and to CH2 and CH4. Set the audio input level selector switch depending on the type of external sound supplied.



• Selecting the sound to be supplied to CH1 and CH2

When the phantom microphone is to be used	→ F. MIC
When supplying mic signals from the REAR connector	→ R. MIC
When supplying line signals from the REAR connector	→ LINE

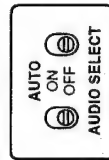


• Selecting the mic power

When the phantom microphone is to be used at the rear	→ ON
When a regular microphone is to be used at the rear	→ OFF

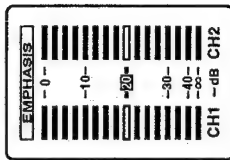
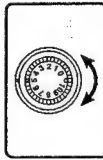
2 Set the AUTO switch to OFF.

When the AUTO switch is set to ON, the audio level is automatically adjusted more or less appropriately regardless of the position of the audio level controls.



3 Turn the audio level controls clockwise or counterclockwise, and adjust them so that the level displayed on the level meter (display window) is the standard level.

- Refer to the camera's Instruction Manual for the details on the audio input level indicated inside the viewfinder.
- To adjust the volume while the camera's built-in microphone is used, set the level control on either the camera or unit to the maximum position, and then adjust to the appropriate level using the other level control.
- Howling can occur if the volume level of the sound heard through the audio monitor speaker is too high. In a case like this, turn the MONITOR level control and reduce the volume to a level at which howling no longer occurs.



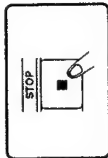
Handling the phantom microphone

The unit is designed to enable a phantom microphone to be used as its microphone (CH1/CH2). For further details, refer to ⑪ on page 11.

Power saving mode

When the camera's DC POWER switch is set to SAVE, the unit is set to the power saving mode and the battery pack's charge is conserved.

- 1 Stop the unit and eject the tape or set to the rec pause mode.**



- 2 Set the camera's DC POWER switch to SAVE.**
The unit is now set to the power saving mode. This means that the drum stops turning in the half-loaded status.

Reference:

A tape can be fast forwarded, rewind, ejected or recorded even in the power saving mode. If one of these operations is performed in the power saving mode, the power saving mode will be restored when the STOP button or REC PAUSE button is pressed during operation or when the fast forwarding, rewinding or eject operation is completed.

Playback

Checking what was recorded

When the PLAY button is pressed, black-and-white playback images can be viewed in the viewfinder. Two other methods are available to view the playback images.

1. Rec review

When the REC CHECK is set to ON by the setting menu MAIN FUNCTION, the black-and-white images for the last 2 seconds of the recording can be viewed. When recording is temporarily halted and the RET button on the lens is pressed, the section of the tape containing the last 2 seconds of the recording is automatically rewind, and the playback images in that section are displayed in the viewfinder. This makes it possible to check whether the recording has been performed properly.

After playback, the unit is returned to the recording start standby status.

<Note>

The rec review function cannot be used if the recording is for less than one minute.

2. Color playback

The playback images can be viewed in color when a color monitor is connected to the unit's VIDEO OUT connector.

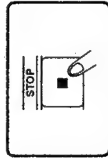
The playback signals are output to the viewfinder even during rewinding or fast forwarding.

The audio output of the playback signals is selected and its volume is adjusted using the MONITOR SELECT switch and MONITOR level control. (See page 7.)

Playback

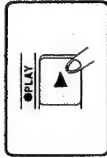
- 1 Press the unit's STOP button to set the unit to the stop mode.**

The unit is not set to the stop mode during REC/PLAY even when its STOP button is pressed. Press the camera's VTR START/STOP button to suspend the recording (establish the rec pause mode), and then press the unit's STOP button.



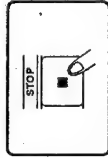
- 2 Press the PLAY button.**

- Playback of the images begins in the viewfinder.
- The signals from the VIDEO OUT connector are played back in the color mode.



- 3 Press the STOP button.**

During playback, this button is not coupled with the camera's VTR START/STOP button. The unit's STOP button must be used.

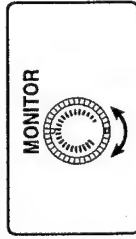


Monitoring the sound

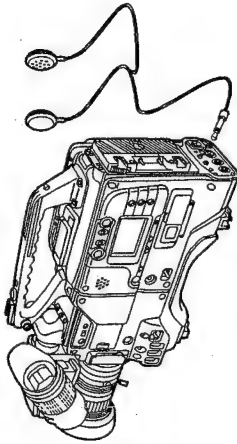
- 1 Select the audio channel using the MONITOR SELECT switch.



- 2 Turn the MONITOR level control to adjust the speaker volume.



- 3 When monitoring the sound using an earphone, connect the earphone to the PHONE jack.



- The sound cannot be monitored through the speaker when the earphone has been connected.

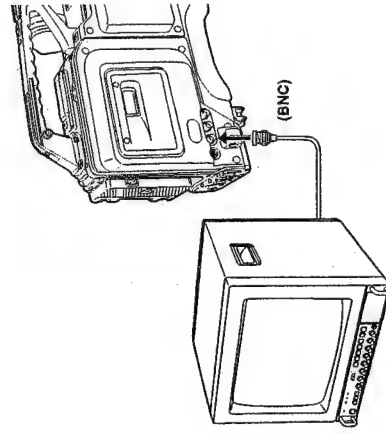


Monitoring the pictures

- The camera signals can be monitored during recording.
- During playback, the playback images in the color mode can be monitored.
(The camera signals can be output by means of setting menu operations during playback.)

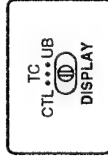
<Note>

To monitor the camera signals during playback, use the camera's VIDEO OUT connector.



Setting the time code signals

- 1 Set the DISPLAY selector switch to the TC position.



- 2 Set the TCG selector switch to the SET position.



- 3 Set TC MODE on the setting menu FUNCTION 1/3 page to DF or NDF.

DF: The time code runs in the drop frame mode.

NDF: The time code runs in the non-drop frame mode.

- 4 Set the time code using the SHIFT/ITEM button and UP/DOWN buttons.

UP button: This increments the figure in the flashing digit by 1.

DOWN button: This decrements the figure in the flashing digit by 1.

- 5 Set the TCG selector switch to F-RUN or R-RUN.

F-RUN: The time code runs in the free run mode.

R-RUN: The time code runs in the rec run mode.

Reference:

- The drop frame or non-drop frame mode can be selected for the time code using a setting menu.

- Rec run and free run

Rec run:

The unit counts the time code only in the recording mode. The count is started at the same time as the recording is started, and it stops at the same time as the recording is ended.

Free run:

The unit continues to count the time code all the time regardless of the unit's operating mode. If the generator's time is set to a standard clock, the time of the recording can be recorded on the tape.

- Drop frame (DF) and non-drop frame (NDF)

Drop frame:

In order to compensate for the deviation between the color synchronization and actual time over an extended period of time, two frames (00 and 01) are "dropped" (skipped) at the start of every even-numbered minute with the exception of 0, 10, 20, 30, 40 and 50 minutes.

00:00:59.29



00:01:00.02

Non-drop frame:

The frames are counted up without tampering with the time code signal.

00:00:59.29



00:01:00.00

Setting the time code signals

<Notes>

The DF or NDF indicated in the display window may differ from the setting in the following cases even when drop frame or non-drop frame has been set for the time code by a setting menu operation.

1. When an external time code is supplied
The drop frame or non-drop frame mode of the external time code is followed regardless of the setting menu operation.
2. When the unit is set to any mode except recording
The time code is set to what applies in the playback mode. The DF display shows the drop frame or non-drop frame mode, whichever mode applies to the time codes which were recorded on the tape.
3. When the TCG selector switch has been set to the R-RUN position
If the tape contains pre-recorded time code data when the recording is commenced, that data will be read out and a continuous time code will be recorded. This means that the recording will follow the previously recorded mode regardless of the setting menu operation.

Concerning the time code when the battery is replaced

When the battery is replaced, the back-up mechanism is activated. This enables the time code generator to continue operating for an extended period of time (approximately one year).

Setting the user's bit (including real time)

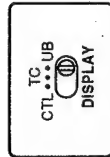
Concerning the user's bit memory function

The user's bit settings (but not the actual time) are automatically stored in the memory and held even after the power is turned off.

<Notes>

- When REAL has been selected for UB MODE, the HOUR and MINUTE settings on the TIME/DATE page are followed.
- If the menu SET/OFF switch is set to SET while the display selector switch is at UB when REAL was selected for UB MODE, the display in the display window is held.

- 1 Set the DISPLAY selector switch to the UB position.



- 2 Set the TCG selector switch to the SET position.



- 3 Set UB MODE on the setting menu FUNCTION 1/3 page.

- 4 Set to USER using the SHIFT/ITEM button and UP/DOWN buttons.

SHIFT/ITEM button:

This is used to cause the digit to be set to flash. Each time it is pressed, the flashing digit moves to the right.

UP button:

This increments the figure in the flashing digit by 1.

DOWN button:

This decrements the figure in the flashing digit by 1.

- Letters A through F used for hexadecimal notation are displayed as shown below.

Hexadecimal notation	A	B	C	D	E	F
Display	A	b	c	d	e	f

- 5 Set the TCG selector switch to F-RUN or R-RUN.

Continuously recording the time codes during back-space assemble recording

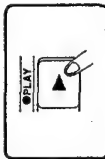
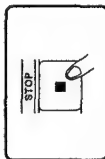
- 1 Set the TCG selector switch to R-RUN.
The time codes can now be recorded using the values which continue on from the previously recorded part.



<Note>
When an external time code signal has been input, the time codes cannot be made to run through from one scene to the next during back-space assemble recording.

Time code playback

- 1 Press the STOP button to set the unit to the stop mode.
- 3 Press the PLAY button to start playback.



Reference:
In the drop frame mode, the DF display lights in the display window.

- 2 Set the DISPLAY selector switch to the TC or UB position.



Locking the internal time code generator to an external time code

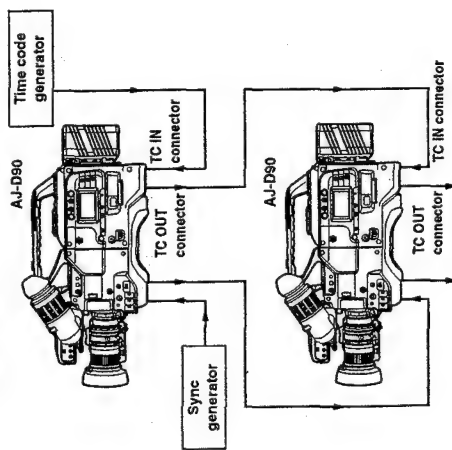
- 1 Input the time code signal synchronized with the reference video signal to the time code input connector.
- 3 Set the TCG selector switch to F-RUN.



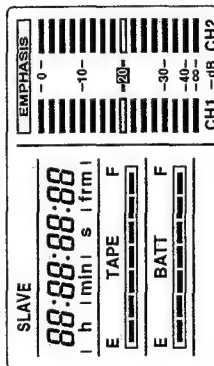
Depending on the setting, the unit's built-in time code generator operates in a different way.
Normally, the switch is kept at the F-RUN position.

When it is set to the F-RUN position, the counting continues without interruption even when the external time code signal is temporarily interrupted.

<Note>
A reference signal distributor is required when a camera without a reference through connector is used to lock the generator.



Slave lock is applied to the external time code signal while the tape is stopped and when the recording mode is established while the unit's power is ON.



In addition to using an external time code generator as a source of the time code signal to which the internal generator is to be locked, the unit can also be used as the master.

Setting menu screens

Menu screen display methods

USER menu: These menus are displayed when the MENU switch is set to SET.

ENG menu: These menus are displayed when the MENU switch is set to SET while the SHIFT/ITEM and UP buttons are pressed at the same time.

VF DISPLAY screen

The viewfinder display information is set on this screen.

→TAPE : ON
TCG VF DISP : OFF

Item	Possible settings	VF display	Remarks
TAPE	ON OFF	USER	This sets the remaining tape display to ON or OFF.
TCG VF DISP	ON OFF	USER	This sets the time code display to ON or OFF. ON: The time code is displayed. OFF: The time code is not displayed.

MAIN FUNCTION screen

The functions to be used are set on this screen.

- MAIN FUNCTION -

- REC MODE	: 50M
PB MODE	: 50M
REC CHECK	: ON
BACK TALLY	: ON

Item	Possible settings	VF display	Remarks
REC MODE	50M 25M	USER	This selects the mode for recording on the unit's tape. 50M: The 50 Mbps rate is used for recording. When 50M is set, the 50Mbps lamp lights. 25M: The 25 Mbps rate is used for recording.
PB MODE	AUTO 50M 25M	USER	This selects the unit's playback mode. AUTO: Mode for automatically detecting the recording mode and playing the tape back in that mode. 50M: 50M mode 25M: 25M mode
REC CHECK	ON OFF	USER	This sets the REC CHECK operation to ON or OFF.
BACK TALLY	ON OFF	USER	This sets the back tally LED to ON or OFF.

BATT/TAPE ALARM screen

If the warning tone sounded for the remaining battery charge or for the remaining tape during shooting becomes disruptive, it can be turned off on this screen.

- BATT/TAPE ALARM -

→BATT NEAR END	: OFF
BATT END	: ON
TAPE NEAR END	: OFF
TAPE END	: ON

Item	Possible settings	VF display	Remarks
BATT NEAR END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the battery charge is nearly exhausted to ON or OFF.
BATT END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the battery has completely run down to ON or OFF.
TAPE NEAR END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the end of the tape approaches to ON or OFF.
TAPE END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the tape has come to the end to ON or OFF.

The underlining in the "Possible settings" column denotes the preset mode.

Setting menu screens

FUNCTION 1/3 screen

The adjustment functions (FUNCTION 1/3) are set on this screen.

- FUNCTION 1/3 -	: OFF
→ HUMID OPE	: NORMAL
REC START	: DF
TC MODE	: USER
UB MODE	: 30
PAUSE TIMER	: NIC-12
BATTERY SEL	: OFF
TCG SET HOLD	: OFF
LIGHT SET UP	

<Note>

- Change the time on the TIME/DATE menu screen when REAL is selected for UB MODE.

Item	Possible settings	VF display	Remarks
HUMID OPE	ON <u>OFF</u>	ENG	This selects the operation to be performed when condensation has formed. ON: The unit continues operating as before. OFF: All operations except those initiated by the POWER switch and EJECT button are prohibited.
REC START	ALL <u>NORMAL</u>	ENG	This selects the acceptance of REC with VTR START/STOP operations. ALL: REC is accepted in any mode. NORMAL: REC is accepted only in the STOP (POWER SAVE) mode and REC PAUSE mode.
TC MODE	DF <u>NDF</u>	ENG	This selects DF or NDF for the time code. DF: Drop frame mode NDF: Non-drop frame mode
UB MODE	USER <u>REAL</u> EXT	ENG	This selects how UB is to be used. USER: User setting (fixed) REAL: Real-time operation using the TIME DATE time. EXT: Slave lock of UBG value when TC is input from an external source. (The user setting is used if TC is not input from an external source.)
PAUSE TIMER	10 20 <u>30</u>	ENG	This sets the length of time for which the REC/PAUSE mode is to be held. 10: 10 minutes 20: 20 minutes 30: 30 minutes
BATTERY SEL	NiCd-12 <u>NiCd-13</u> NiCd-14 DIGITAL	ENG	This selects the type of battery. (See Note 1). NiCd-12: When a 12V NiCd battery is to be used. NiCd-13: When a 13V NiCd battery is to be used. NiCd-14: When a 14V NiCd battery is to be used.
TCG SET HOLD	ON <u>OFF</u>	ENG	DIGITAL: When a digital battery is to be used. This selects the TCG operation with TCG SET → power OFF → power ON → REC. ON: The TCG SET setting is stored in the memory when the power is turned off, and no regeneration occurs. OFF: The TCG SET setting is not stored in the memory when the power is turned off, and regeneration occurs.
LIGHT SET UP	<u>OFF</u> ON	ENG	This sets whether to store in the memory the LCD lighting status when the power was last turned off. OFF: The lighting status is not stored in the memory. (When the power is turned on, the LCD lighting will be OFF.) ON: The lighting status is stored in the memory. (When the power is turned on, the LCD lighting status applying when the power was last turned off is

Note 1

Whether or not the Anton intelligent battery is used is automatically detected even when NICD-12, 13 or 14 is selected as the BATTERY SEL setting. If the intelligent battery is used, a number representing the percentage of the battery charge that remains will be displayed in the viewfinder. Use the DIGITAL setting when the intelligent battery is to be used at all times.

The underlining in the "Possible settings" column denotes the preset mode. USER menus: These menus are displayed when the MENU switch is set to SET.

ENG menus: These menus are displayed when the MENU switch is set to SET while the SHIFT/ITEM and UP buttons are pressed at the same time.

Setting menu screens

Menu screen display methods

USER menu: These menus are displayed when the MENU switch is set to SET.

ENG menu: These menus are displayed when the MENU switch is set to SET while the SHIFT/ITEM and UP buttons are pressed at the same time.

VF DISPLAY screen

The viewfinder display information is set on this screen.

→TAPE : ON
TCG VF DISP : OFF

Item	Possible settings	VF display	Remarks
TAPE	ON OFF	USER	This sets the remaining tape display to ON or OFF.
TCG VF DISP	ON OFF	USER	This sets the time code display to ON or OFF. ON: The time code is displayed. OFF: The time code is not displayed.

MAIN FUNCTION screen

The functions to be used are set on this screen.

- MAIN FUNCTION -

- REC MODE	: 50M
PB MODE	: 50M
REC CHECK	: ON
BACK TALLY	: ON

Item	Possible settings	VF display	Remarks
REC MODE	50M 25M	USER	This selects the mode for recording on the unit's tape. 50M: The 50 Mbps rate is used for recording. When 50M is set, the 50Mbps lamp lights. 25M: The 25 Mbps rate is used for recording.
PB MODE	AUTO 50M 25M	USER	This selects the unit's playback mode. AUTO: Mode for automatically detecting the recording mode and playing the tape back in that mode. 50M: 50M mode 25M: 25M mode
REC CHECK	ON OFF	USER	This sets the REC CHECK operation to ON or OFF.
BACK TALLY	ON OFF	USER	This sets the back tally LED to ON or OFF.

BATT/TAPE ALARM screen

If the warning tone sounded for the remaining battery charge or for the remaining tape during shooting becomes disruptive, it can be turned off on this screen.

- BATT/TAPE ALARM -

→BATT NEAR END	: OFF
BATT END	: ON
TAPE NEAR END	: OFF
TAPE END	: ON

Item	Possible settings	VF display	Remarks
BATT NEAR END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the battery charge is nearly exhausted to ON or OFF.
BATT END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the battery has completely run down to ON or OFF.
TAPE NEAR END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the end of the tape approaches to ON or OFF.
TAPE END	ON <u>OFF</u>	ENG	This sets the warning tone heard when the tape has come to the end to ON or OFF.

The underlining in the "Possible settings" column denotes the preset mode.

Setting menu screens

FUNCTION 2/3 screen

The adjustment functions (FUNCTION 2/3) are set on this screen.

- FUNCTION 2/3 -	
-FRONT MIC	: -40dB
REAR MIC CH1	: -60dB
REAR MIC CH2	: -40dB
LINE AUDIO	: STEREO
FRONT MIC IN	: BAL
MIC LOWCUT CH1	: ON
MIC LOWCUT CH2	: OFF
EMPHASIS	: OFF
LIMITER	: OFF

- <Note>
- The frequency response when ON is selected as the MIC LOWCUT setting is 200 Hz to 10 kHz.
 - The LIMITER is activated from the peak (+24 dBu: the AUDIO LINE CH1/CH2 are selected to +4 dB) to -3 dB.
 - When AUDIO SELECT is set to MAN, limiter operation results; when it is set to AUTO, AGC operation results.

Item	Possible settings	VF display	Remarks
FRONT MIC	-40/-50/-60dB	ENG	This sets the camera mic input level.
REAR MIC CH1	-40/-50/-60dB	ENG	This sets the rear jack AUDIO CH1 input mic level.
REAR MIC CH2	-40/-50/-60dB	ENG	This sets the rear jack AUDIO CH2 input mic level.
LINE CH1/CH2	+40/-60dB	ENG	This sets the rear jack AUDIO CH1/CH2 input line level.
REAR AUDIO	STEREO MONO	ENG	This sets the rear jack AUDIO CH1/CH2 input method. STEREO: Stereo input is selected. (The CH1 input signals are recorded on CH1 and the CH2 input signals on CH2). MONO: Monoaural input is selected. (The CH1 and CH2 mixed input signals are recorded on both CH1 and CH2).
FRONT MIC IN	BAL UNBAL	ENG	This selects balanced or unbalanced for the camera mic connection with the 68-pin interface. BAL: Balanced is set for the camera mic input. UNBAL: Unbalanced is set for the camera mic input.
MIC LOWCUT CH1	ON OFF	ENG	This sets the CH1 input high-pass filter to ON or OFF.
MIC LOWCUT CH2	ON OFF	ENG	This sets the CH2 input high-pass filter to ON or OFF.
EMPHASIS	ON OFF	ENG	This sets the emphasis during recording to ON or OFF. The EE output signals are also coupled with this switch status.
LIMITER	ON OFF	ENG	This sets the audio limiter to ON or OFF. ON: The limiter operates. OFF: The limiter does not operate.

The underlining in the "Possible settings" column denotes the preset mode.
USER menus: These menus are displayed when the MENU switch is set to SET.
ENG menus: These menus are displayed when the MENU switch is set to SET while the SHIFT/ITEM and UP buttons are pressed at the same time.

Setting menu screens

FUNCTION 3/3 screen

The adjustment functions (FUNCTION 3/3) are set on this screen.

- FUNCTION 3/3 -	
-PB SET UP	: 0 %
PB OUT	: ON

Item	Possible settings	VF display	Remarks
PB SET UP	0 % 7.5 %	ENG	This sets the set-up level during playback.
PB OUT	ON OFF	ENG	This sets the video signal to be supplied to the VIDEO OUT connector. ON: The video signal which was selected by the unit's operating mode (recording, playback, setting menu, etc.) is output to the VIDEO OUT connector. OFF: The encoder video signal from the camera is output at all times to the VIDEO OUT connector. However, when the MENU SET/OFF switch is set to SET, the menu screen is displayed. (This setting is used when recording on a back-up VTR).

The underlining in the "Possible settings" column denotes the preset mode.
USER menus: These menus are displayed when the MENU switch is set to SET.
ENG menus: These menus are displayed when the MENU switch is set to SET while the SHIFT/ITEM and UP buttons are pressed at the same time.

Setting menu screens

TIME/DATE screen

The time and date are set on this screen. After changing the date and/or time, press the UP or DOWN button to enter the setting.

Item	Possible settings	VF display	Remarks
YEAR	98 ~ 10	ENG	For setting the year.
MONTH	1 ~ 12	ENG	For setting the month.
DAY	1 ~ 31	ENG	For setting the day.
HOUR	0 ~ 23	ENG	For setting the hours.
MINUTE	0 ~ 59	ENG	For setting the minutes.
TIME/DATE SET	—	ENG	For entering date and time.

<Note>

The seconds are not set. Operation always starts at 0 seconds.

DATA RESET screen

The MENU display item settings are reset on this screen. Align → with the item, and press the UP or DOWN button to enter the setting.

Item	Possible settings	VF display	Remarks
MENU INIT.	—	ENG	This restores the setting menus to the factory status.

DIAGNOSTIC screen

The operating conditions and software version are displayed on this screen.

Item	Possible settings	VF display	Remarks
OPERATION	—	ENG	This indicates the operation time while the power is ON.
DRUM RUNNING	—	ENG	This indicates the drum running time.
THREADING	—	ENG	This indicates the number of loading times.
VTR SYSCON	—	ENG	This indicates the software version.
DV	—	ENG	This indicates the software version.

The underlining in the "Possible settings" column denotes the preset mode.
 USER menus: These menus are displayed when the MENU switch is set to SET.
 ENG menus: These menus are displayed when the MENU switch is set to SET while the SHIFT/ITEM and UP buttons are pressed at the same time.

Warning system

When trouble is detected immediately after the power is turned on or during operation, the operator is alerted by the display window (LCD) indication, WARNING lamp and lamps inside the viewfinder as well as by warning tones from the speaker or earphone.

Item	Display window (LCD) indication			Lamps		Warning tone	Description of warning	Unit's operation	Remedial action
	Warning display status	Remaining battery charge display	Remaining tape display	WARNING lamp	REC lamp				
RF	Lights * 1)			Blinks 4 times/sec.	Blinks 4 times/sec.	4 times/sec. * 1)	Clogged video heads or trouble in recording system.	Head clogging is detected and a warning tone is sounded. It may not be possible to record the signals properly.	Clean the heads. If the signals still cannot be recorded properly even after cleaning, turn off the power and consult your dealer.
SERVO	Lights			Blinks 4 times/sec.	Blinks 4 times/sec.	4 times/sec.	Disturbed servo.	Recording continues but it may not be possible to record the signals properly.	Turn off the power and consult your dealer. (The displays may blink for an instant and then go off when the tape starts travelling. This is normal and not indicative of trouble.)
HUMID	Lights			Lights	Blinks 4 times/sec.	4 times/sec. * 1)	Condensation.	Recording continues but recording stops if the tape sticks. Play, fast forwarding or rewinding is stopped.	If the HUMID display is not cleared even after the tape travel is stopped and the power is turned off, wait until the display is cleared.
SLACK	Blinks			Blinks 4 times/sec.	Blinks 4 times/sec.	Continuous tone * 2)	Trouble in tape take-up.	An error code appears where the time code is displayed in the display window. The unit is shut down.	Check the error code in the display window (see page 37), and consult your dealer.

* 1) During recording * 2) During play, fast forwarding or rewinding

<Note>

If no cleaning tape is available to deal with video head clogging, set the unit to the STOP mode, and then press the STOP button again while holding down the RESET button on the side panel. The cleaning roller will clean the heads for up to 10 seconds while the RESET button is held down.

Warning system

Item	Display window (LCD) indication				Warning tone	Description of warning	Unit's operation	Remedial action
	Warning display status	Remaining battery charge display	Remaining tape display	Lamps				
TAPE END	E TAPE F	Blinks * 1)	Only 1 of the 7 segments is displayed (5-0 blinks inside the viewfinder).	Blinks once/sec. * 1)	4 times/sec.	Tape is approaching its end.	The unit continues operating.	Replace the tape when it becomes necessary.
		Blinks	All 7 segments are displayed.	Lights	Blinks 4 times/sec.	Tape has come to the end.	The unit stops operating during recording, play or fast forwarding.	Replace or rewind the tape.
BAT- TERY END	E BATT F	Only 1 of the 7 segments is displayed.		Blinks once/sec. * 1)	4 times/sec. * 1)	The battery has nearly run down.	The unit continues operating.	Replace the battery when it becomes necessary.
		Blinks	All 7 segments are displayed.	Lights	Blinks once/sec.	The battery has completely run down.	The unit stops operating.	Replace the battery.

* 1) During recording * 2) During play, fast forwarding or rewinding

The warning system has the following sequence of priority.

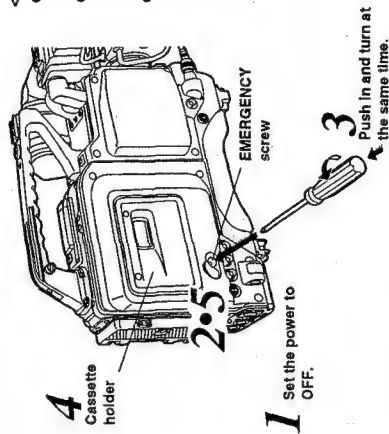
- 1 SLACK
- 2 BATTERY END
- 3 TAPE END
- 4 BATTERY NEAR END
- 5 TAPE NEAR END
- 6 HUMID
- 7 SERVO
- 8 RF

Emergency eject

If the cassette cannot be ejected by pressing the EJECT button, use a screwdriver or similar tool to press and turn the EMERGENCY screw. This enables the cassette to be removed.

- 1 Set the power to OFF.
- 2 Remove the rubber cap where shown in the figure. Insert a Phillips head screwdriver into the cross-shaped part of the EMERGENCY screw (red).
- 3 While pushing in with the screwdriver, turn the EMERGENCY screw counterclockwise until the cassette comes up.
- 4 Remove the cassette.
- 5 Return the rubber cap to its original position.

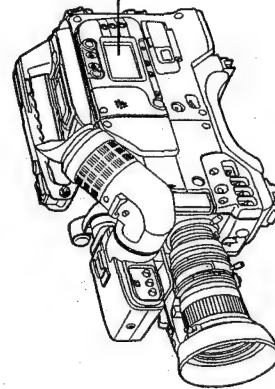
- <Notes>
- Do not turn the EMERGENCY screw except in an emergency.
 - Do not turn the screw clockwise. Stop turning the screw as soon as the cassette comes up. Otherwise, the mechanism may be damaged.
 - After the cassette has come up, the cassette holder will not lock into place even when an attempt is made to close it. Be sure to turn the power off and turn it back on to reset the mechanism's operation, and then close the cassette holder.



Error codes

When an error has occurred in the unit for some reason, one of the following error codes will appear in the display window.

Code No.	Description
7	Abnormal signal input
B	Solenoid trouble
9	Servo lock failure
A	Formation of condensation
B	Supply reel trouble
C	Take-up reel trouble
D	Capstan trouble
E	Cylinder trouble
F	Loading trouble



Maintenance

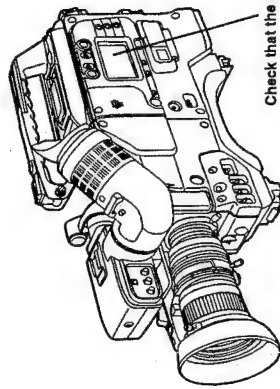
Condensation

When the unit is taken from a cold location into a warm room or when it is used in a very humid place, the water vapor contained in the air may adhere to the head drum in the form of droplets of water. This phenomenon is known as condensation: if the tape is run in this condition, it will tend to stick to the drum. In this respect, bear in mind the following points.

- Remove the tape when moving the unit under conditions which may cause condensation to form.
- Before inserting the tape, set the POWER switch to ON, and check that the HUMID display is not lighted in the display window. If it is lighted, do not insert the tape until the display goes off.

Head cleaning

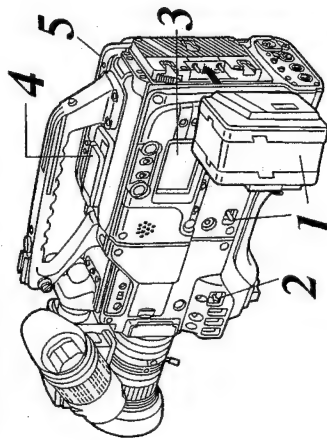
Use the AJ-CL12MP cleaning cassette if the heads need to be cleaned.
Read the instructions accompanying the cleaning tape since improper use may damage the video heads.



Inspections prior to shooting

Conduct the following inspections prior to shooting and check that the system is operating properly. It is recommended that a color monitor be used to check the images.

Inspection preparations



- 1 Install an already charged battery and set the POWER switch of this unit to ON.
- 2 Set the camera's DC POWER switch to OFF → SAVE → ON in this sequence and pause slightly at each setting before proceeding.
- 3 Check that the HUMID display is not lighted and that 5 or more of the BATTERY display segments have lighted.
 - If the HUMID display appears, wait until it goes off.
 - If 5 or more of the BATTERY display segments have not lighted, replace the battery with one having a sufficient charge.
- 4 Check that there are no cables around the cassette holder and top panel, and press the EJECT button to open the cassette holder.
- 5 After checking out the following points, insert the cassette, and close the cassette holder.
 - The cassette should not be set to the accidental erasure prevention status.
 - The tape should not be slack.

Inspections prior to shooting

1. Tape transport inspections

- 1 Set the TCG selector switch to R-RUN.
- 2 Set the DISPLAY selector switch to CTL.
- 3 Press the camera's VTR START button and check the following items.
 - The tape reels should rotate.
 - The figure on the counter display should change.
 - The REC lamp inside the viewfinder should light.
 - RF and SERVO should not light on the display window.
- 4 Press the camera's VTR/START button again. Check that the tape stops and the REC lamp inside the viewfinder goes off.

- 5 Use the lens VTR button to check the same operations as those described in steps 3 and 4.
- 6 Press the RESET button, and check that the figure on the counter display is reset to 00:00:00:00.

- 7 Set the LIGHT switch to ON, and check that the display window is illuminated.

- 8 Press the REW button to rewind the tape for a while, and then press the PLAY button. Check that recording, playback and rewinding operations are trouble-free.

- 9 Press the FF button, and check that the fast forwarding operation is trouble-free.

2. Automatic audio level adjustment function inspection

- 1 Set the AUTO switch to ON.
- 2 Set the AUDIO IN selector switch to F.MIC.
- 3 Point the microphone which has been connected to the AUDIO IN jack toward a suitable source of sound, and check that the CH1/CH2 level displays change in a pattern corresponding to the changes in the volume of sound.

3. Manual audio level adjustment function inspection

- 1 Set the AUDIO IN selector switch to F.MIC.
- 2 Set the AUTO switch to OFF.
- 3 Turn the audio level controls. Check that the level display reading increases when the controls are turned clockwise.

4. Earphone and speaker inspection

- 1 Turn the MONITOR level control, and check that the speaker's volume changes.
- 2 Connect an earphone to the PHONES jack. Check that the speaker's sound is cut off and that the microphone sound can be heard through the earphone.
- 3 Turn the MONITOR level control, and check that the earphone's volume changes.

Inspections prior to shooting

5. Inspection when an external microphone is to be used

1 Connect the external microphone to the AUDIO IN connector.

2 Set the AUDIO IN selector switch to R.MIC.

3 Point the microphone at a source of sound. Check that the audio level meters in the display window and audio level displays inside the viewfinder change in a pattern corresponding to the changes in the volume of sound.

It is also possible to connect a microphone to each channel to conduct the inspection for each channel.

6. Inspection related to time code and user's bit

1 Set the user's bit as required. For details on the setting procedure, refer to "Setting the user's bit" (on page 27).

2 Set the time code. For details on the setting procedure, refer to "Setting the time code signal" (on page 25).

3 Set the TCG selector switch to R-RUN.

4 Press the camera's VTR/START button. Check that the figure on the counter display changes as the tape travels.

5 Press the camera's VTR/START button again. Check that the tape stops and the figure on the counter display no longer changes.

6 Set the TCG selector switch to F-RUN. Check that the figure on the counter display changes whether or not the tape travels.

7 Set the DISPLAY selector switch to UB. Check that the set user's bit is displayed.

List of functions which changes according to the connected camera

Depending on the camera connected to the unit, it may not be possible to use some of the functions. Refer to the table below and proceed with operation.

Camera connected Function	Matsushita Communication Industrial Co.			Matsushita Electric Industrial Co.	
	• WV-F500 • WV-F565	• WV-F700S	• WV-F250	• AQ-11 • AQ-20	
Menu setting character display (pages 30 to 34)	○	○	○	△	Camera's return switch must be operated.
Video signal output (page 24)	○	○	△ Video signals are output during playback only. (Video signals are not output during recording.)	○	
Adjustment of audio recording level using camera's controls (page 21)	○	×	○	○	
Direct commencement of recording from power saving mode	×	×	×	○	
Rec review (page 23)	○	○	○	×	
Monitoring of playback images on viewfinder (page 23)	○	○	○	△	Camera's return switch must be operated.

○: Function which can be used
△: Function which cannot be used in part
×: Function which cannot be used

Connector signals

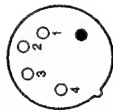
Audio input connector (XLR/3-pin)

Pin No.	Signal
1	GND
2	HOT
3	COLD

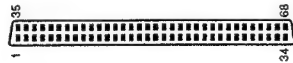


External DC input socket (XLR/4-pin)

Pin No.	Signal
1	GND
2, 3	—
4	+12 V



Camera/VTR interface connector (68-pin)



Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	—	24	COMPOSITE SYNC	45	REC CHECK
2	MIC Lch Lch/Hot	25	UNSWITCHD 12 V	46~48	—
3	—	26~28	—	49	TAPE REVERSE
4	PB AUDIO Lch	29	VTR CHARACTER	50~53	—
5	PB AUDIO Lch GND	30	PR	54	VTR WARNING
6	POWER SAVE	31	POWER GND	55, 56	—
7~9	—	32	Y	57	A. BATTERY REMAIN
10	COUNTER RESET	33	POWER GND	58	—
11	—	34	PB	59	—
12	RETURN Y	35	—	60	ENC VIDEO
13	RETURN Y GND	36	MIC Rch 2ch/Cold	61, 62	—
14~17	—	37	MIC GND	63	WIDE
18	ENC VIDEO GND	38	PB AUDIO Rch	64	CAM MIC VOLUME
19	—	39	PB AUDIO Rch GND	65	POWER GND
20	BATT WARNING	40	VTR START/STOP	66	(V/PB/PR) GND
21	CTL PULSE	41	REC TALLY	67	POWER GND
22	—	42, 43	—	68	—
23	UNSWITCHD 12 V	44	F250		

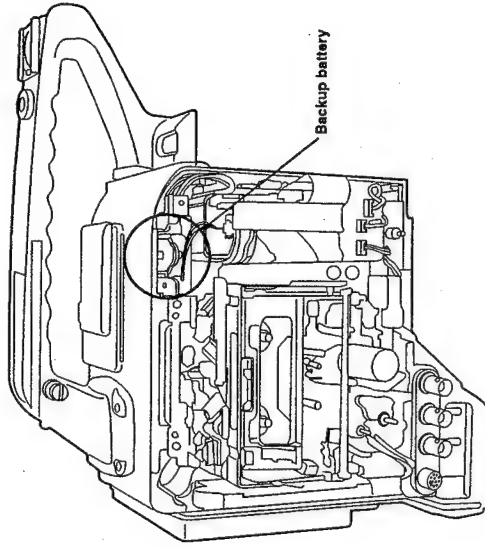
Multi-connector (12-pin)



Pin No.	Signal	Pin No.	Signal
1	—	7	ch1 OUT GND
2	—	8	ch2 OUT
3	—	9	—
4	—	10	ch2 OUT GND
5	ch1 OUT	11	—
6	—	12	—

Replacing the back-up battery

The unit is shipped with the back-up battery already installed. When the back-up battery's charge is used up, the BACKUP BATTERY EMPTY display appears on the monitor connected to the VIDEO OUT connector. (However, it appears only in the STOP mode or EJECT mode.) Consult with your dealer, and replace the battery with a new one (CR2032 or BR2032).



SECTION 2

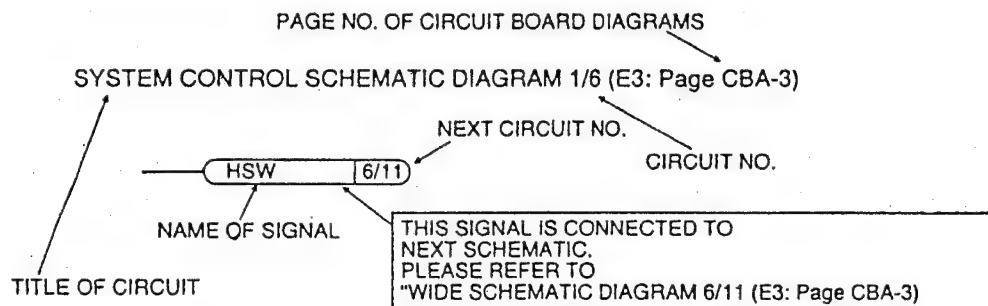
SCHEMATIC DIAGRAMS

Note:

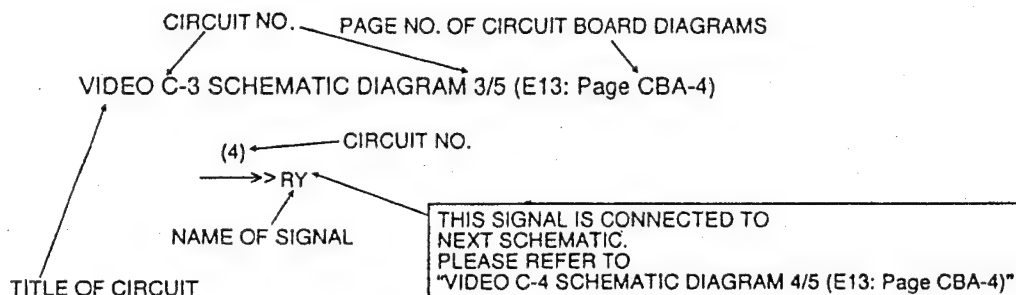
1. Do not use the part number shown on the schematic diagram or P.C.Board layout for ordering.
The correct part number for ordering is shown in the Exploded Views/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS,
K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.

NOTE

(EX 1)



(EX 2)



* Mark \Rightarrow Parts value, see table in the schematic diagram.

(EX:)

	AJ-D700	AJ-D800	
R2018	10K	10K	10K Ω
R2019	20K	* PAT	No part

SECRET

SCHEMATIC DIAGRAMS

1. Do not use the same number for the same diagram or figure in the same document.
2. The number of the diagram or figure should be in the left margin of the page.
3. The number of the diagram or figure should be in the left margin of the page.
4. The number of the diagram or figure should be in the left margin of the page.

NOTE

1. The number of the diagram or figure should be in the left margin of the page.
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SECRET

1. The number of the diagram or figure should be in the left margin of the page.
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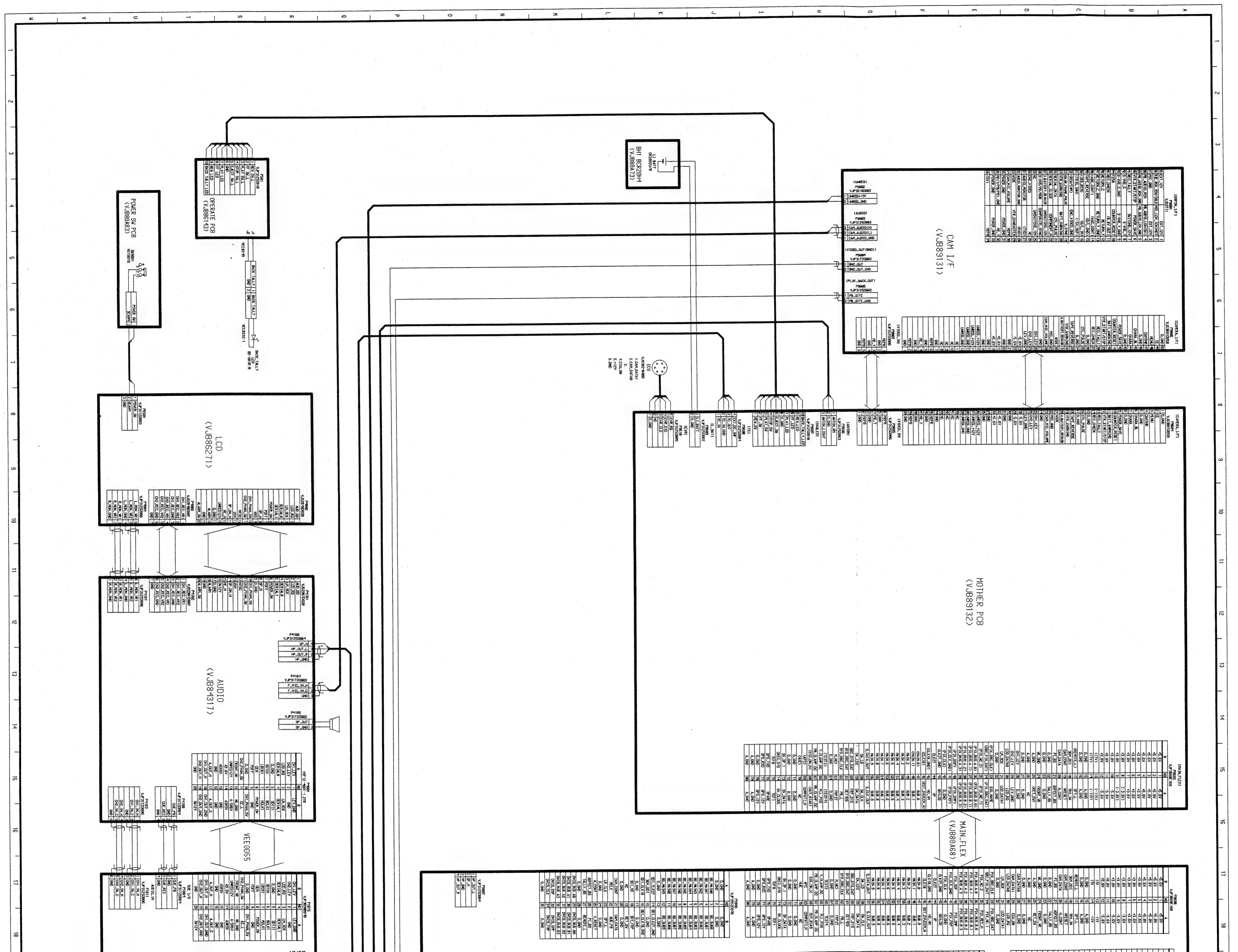
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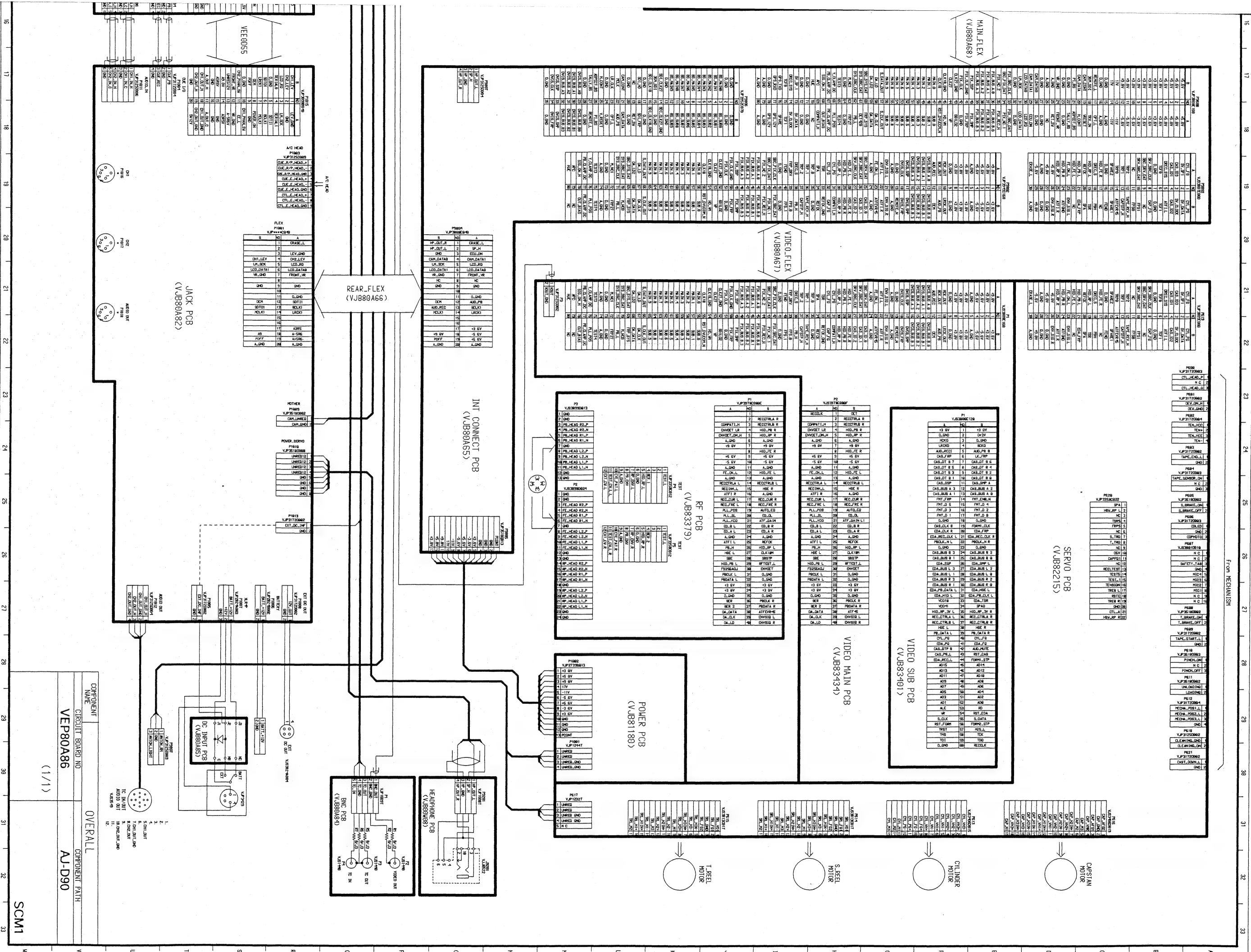
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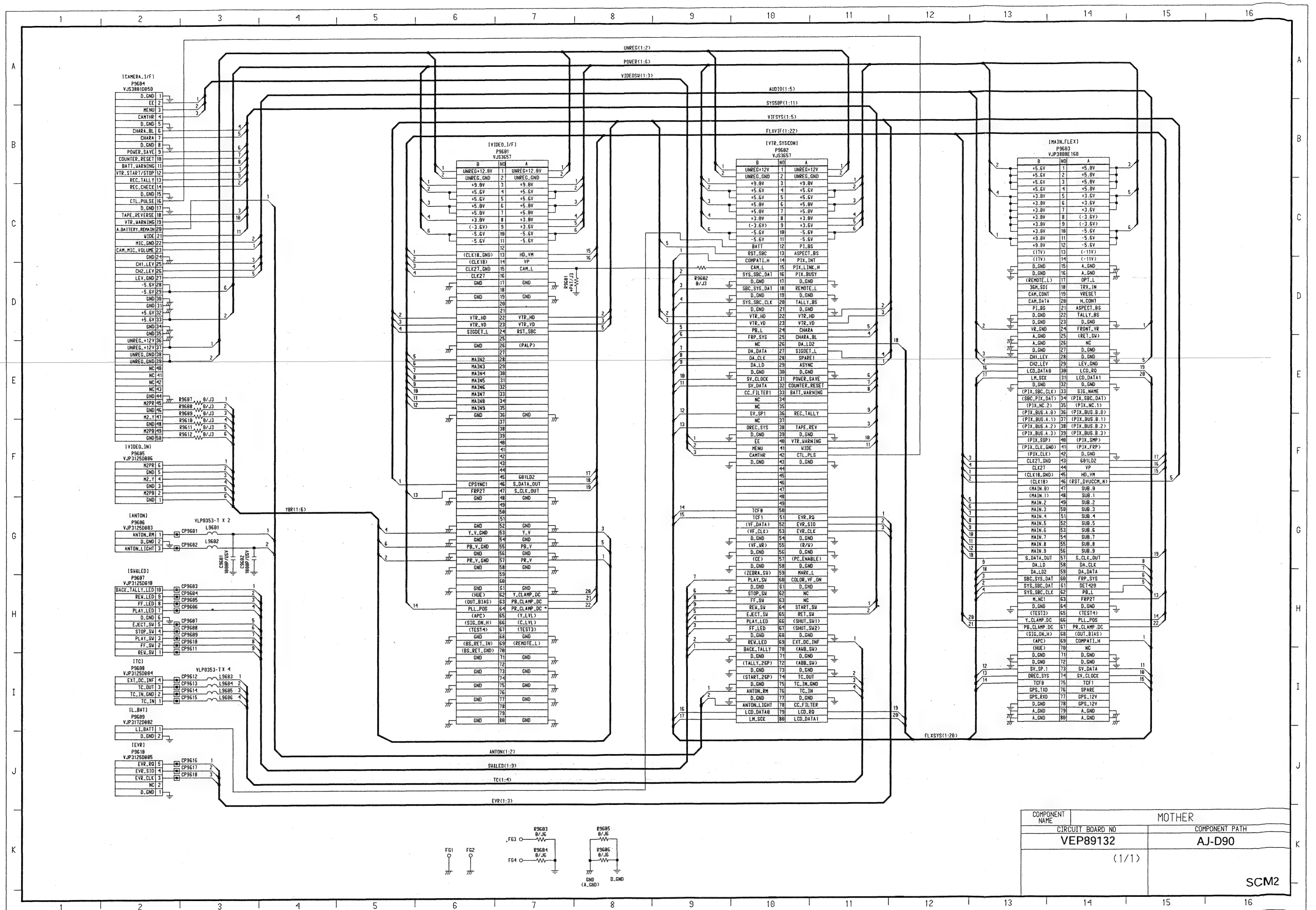
CONTENTS

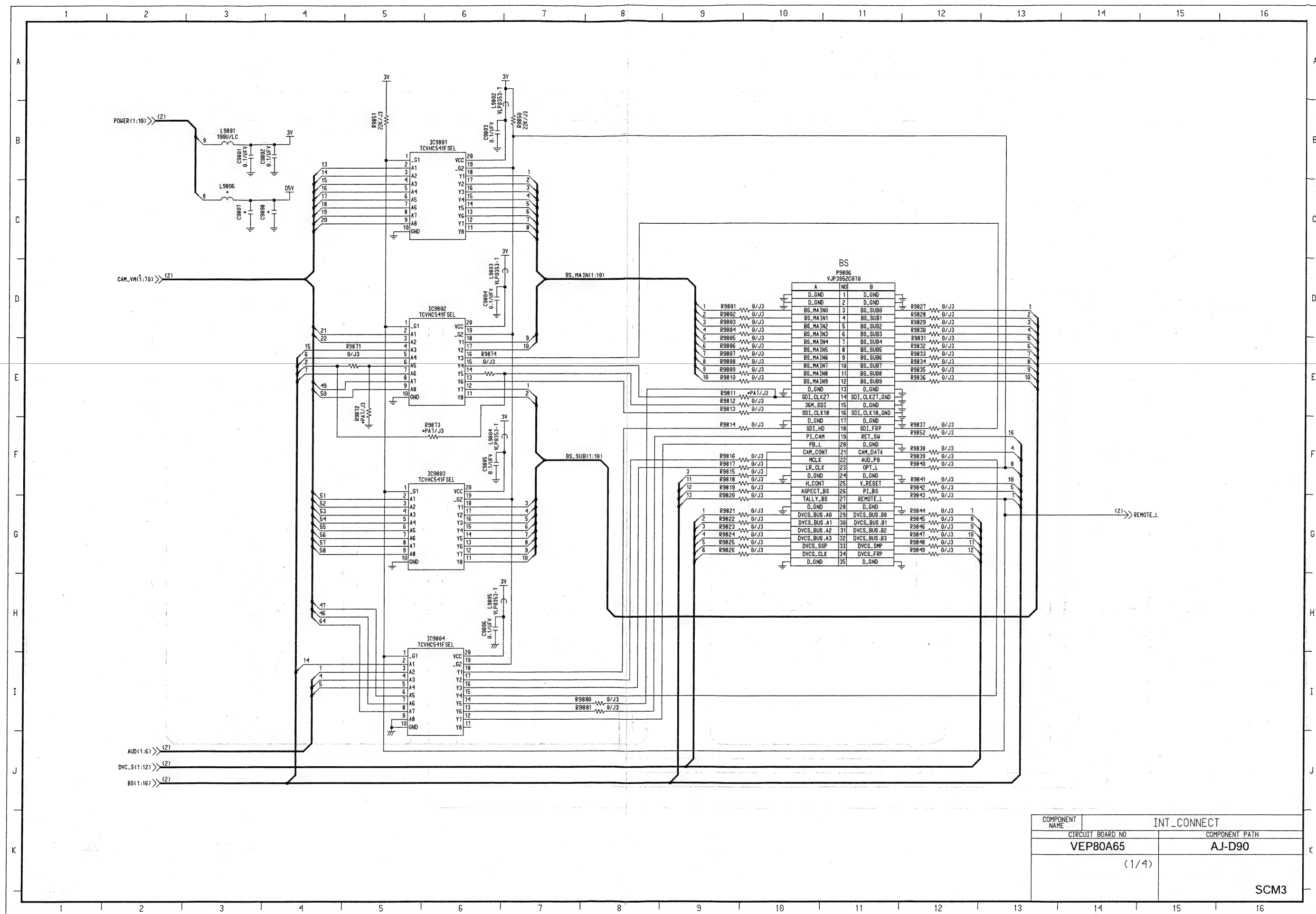
OVER ALL SCHEMATIC DIAGRAM	SCM1
MOTHER SCHEMATIC DIAGRAM.....	SCM2
INT CONNECT SCHEMATIC DIAGRAM1/4	SCM3
INT CONNECT SCHEMATIC DIAGRAM2/4	SCM4
INT CONNECT SCHEMATIC DIAGRAM3/4	SCM5
INT CONNECT SCHEMATIC DIAGRAM4/4	SCM6
SERVO SCHEMATIC DIAGRAM1/13	SCM7
SERVO SCHEMATIC DIAGRAM2/13	SCM8
SERVO SCHEMATIC DIAGRAM3/13	SCM9
SERVO SCHEMATIC DIAGRAM4/13	SCM10
SERVO SCHEMATIC DIAGRAM5/13	SCM11
SERVO SCHEMATIC DIAGRAM6/13	SCM12
SERVO SCHEMATIC DIAGRAM7/13	SCM13
SERVO SCHEMATIC DIAGRAM8/13	SCM14
SERVO SCHEMATIC DIAGRAM9/13	SCM15
SERVO SCHEMATIC DIAGRAM10/13	SCM16
SERVO SCHEMATIC DIAGRAM11/13	SCM17
SERVO SCHEMATIC DIAGRAM12/13	SCM18
SERVO SCHEMATIC DIAGRAM13/13	SCM19
VIDEO MAIN SCHEMATIC DIAGRAM1/15.....	SCM20
VIDEO MAIN SCHEMATIC DIAGRAM2/15.....	SCM21
VIDEO MAIN SCHEMATIC DIAGRAM3/15.....	SCM22
VIDEO MAIN SCHEMATIC DIAGRAM4/15.....	SCM23
VIDEO MAIN SCHEMATIC DIAGRAM5/15.....	SCM24
VIDEO MAIN SCHEMATIC DIAGRAM6/15.....	SCM25
VIDEO MAIN SCHEMATIC DIAGRAM7/15.....	SCM26
VIDEO MAIN SCHEMATIC DIAGRAM8/15.....	SCM27
VIDEO MAIN SCHEMATIC DIAGRAM9/15.....	SCM28
VIDEO MAIN SCHEMATIC DIAGRAM10/15.....	SCM29
VIDEO MAIN SCHEMATIC DIAGRAM11/15.....	SCM30
VIDEO MAIN SCHEMATIC DIAGRAM12/15.....	SCN31
VIDEO MAIN SCHEMATIC DIAGRAM13/15.....	SCM32
VIDEO MAIN SCHEMATIC DIAGRAM14/15.....	SCM33
VIDEO MAIN SCHEMATIC DIAGRAM15/15.....	SCM34
VIDEO SUB SCHEMATIC DIAGRAM1/6.....	SCM35
VIDEO SUB SCHEMATIC DIAGRAM2/6.....	SCM36
VIDEO SUB SCHEMATIC DIAGRAM3/6.....	SCM37
VIDEO SUB SCHEMATIC DIAGRAM4/6.....	SCM38
VIDEO SUB SCHEMATIC DIAGRAM5/6.....	SCM39
VIDEO SUB SCHEMATIC DIAGRAM6/6.....	SCM40
DV Ucom SCHEMATIC DIAGRAM.....	SCM41
RF SCHEMATIC DIAGRAM1/12.....	SCM42
RF SCHEMATIC DIAGRAM2/12.....	SCM43
RF SCHEMATIC DIAGRAM3/12.....	SCM44
RF SCHEMATIC DIAGRAM4/12.....	SCM45
RF SCHEMATIC DIAGRAM5/12.....	SCM46
RF SCHEMATIC DIAGRAM6/12.....	SCM47
RF SCHEMATIC DIAGRAM7/12.....	SCM48
RF SCHEMATIC DIAGRAM8/12.....	SCM49

RF SCHEMATIC DIAGRAM9/12	SCM50
RF SCHEMATIC DIAGRAM10/12	SCM51
RF SCHEMATIC DIAGRAM11/12	SCM52
RF SCHEMATIC DIAGRAM12/12	SCM53
SYSCON SCHEMATIC DIAGRAM1/5	SCM54
SYSCON SCHEMATIC DIAGRAM2/5	SCM55
SYSCON SCHEMATIC DIAGRAM3/5	SCM56
SYSCON SCHEMATIC DIAGRAM4/5	SCM57
SYSCON SCHEMATIC DIAGRAM5/5	SCM58
CAM I/F SCHEMATIC DIAGRAM1/2	SCM59
CAM I/F SCHEMATIC DIAGRAM2/2	SCM60
JACK SCHEMATIC DIAGRAM1/3	SCM61
JACK SCHEMATIC DIAGRAM2/3	SCM62
JACK SCHEMATIC DIAGRAM3/3	SCM63
AUDIO SCHEMATIC DIAGRAM1/9	SCM64
AUDIO SCHEMATIC DIAGRAM2/9	SCM65
AUDIO SCHEMATIC DIAGRAM3/9	SCM66
AUDIO SCHEMATIC DIAGRAM4/9	SCM67
AUDIO SCHEMATIC DIAGRAM5/9	SCM68
AUDIO SCHEMATIC DIAGRAM6/9	SCM69
AUDIO SCHEMATIC DIAGRAM7/9	SCM70
AUDIO SCHEMATIC DIAGRAM8/9	SCM71
AUDIO SCHEMATIC DIAGRAM9/9	SCM72
LCD SCHEMATIC DIAGRAM1/2	SCM73
LCD SCHEMATIC DIAGRAM2/2	SCM74
OPERATE SCHEMATIC DIAGRAM	SCM75
BACK UP BATT.PCB SCHEMATIC DIAGRAM	SCM76
VIDEO I/F SCHEMATIC DIAGRAM1/6	SCM77
VIDEO I/F SCHEMATIC DIAGRAM2/6	SCM78
VIDEO I/F SCHEMATIC DIAGRAM3/6	SCM79
VIDEO I/F SCHEMATIC DIAGRAM4/6	SCM80
VIDEO I/F SCHEMATIC DIAGRAM5/6	SCM81
VIDEO I/F SCHEMATIC DIAGRAM6/6	SCM82
VIDEO I/F SUB SCHEMATIC DIAGRAM1/4	SCM83
VIDEO I/F SUB SCHEMATIC DIAGRAM2/4	SCM84
VIDEO I/F SUB SCHEMATIC DIAGRAM3/4	SCM85
VIDEO I/F SUB SCHEMATIC DIAGRAM4/4	SCM86
RESET PULSE SCHEMATIC DIAGRAM	SCM87
FRP DELAY SCHEMATIC DIAGRAM	SCM88
POWER SCHEMATIC DIAGRAM1/4	SCM89
POWER SCHEMATIC DIAGRAM2/4	SCM90
POWER SCHEMATIC DIAGRAM3/4	SCM91
POWER SCHEMATIC DIAGRAM4/4	SCM92
DC INPUT SCHEMATIC DIAGRAM	SCM93
BNC PCB SCHEMATIC DIAGRAM	SCM94
POWER SW SCHEMATIC DIAGRAM	SCM95
REAR FLEX SCHEMATIC DIAGRAM	SCM96
VIDEO FLEX SCHEMATIC DIAGRAM	SCM97
MAIN FLEX SCHEMATIC DIAGRAM	SCM98

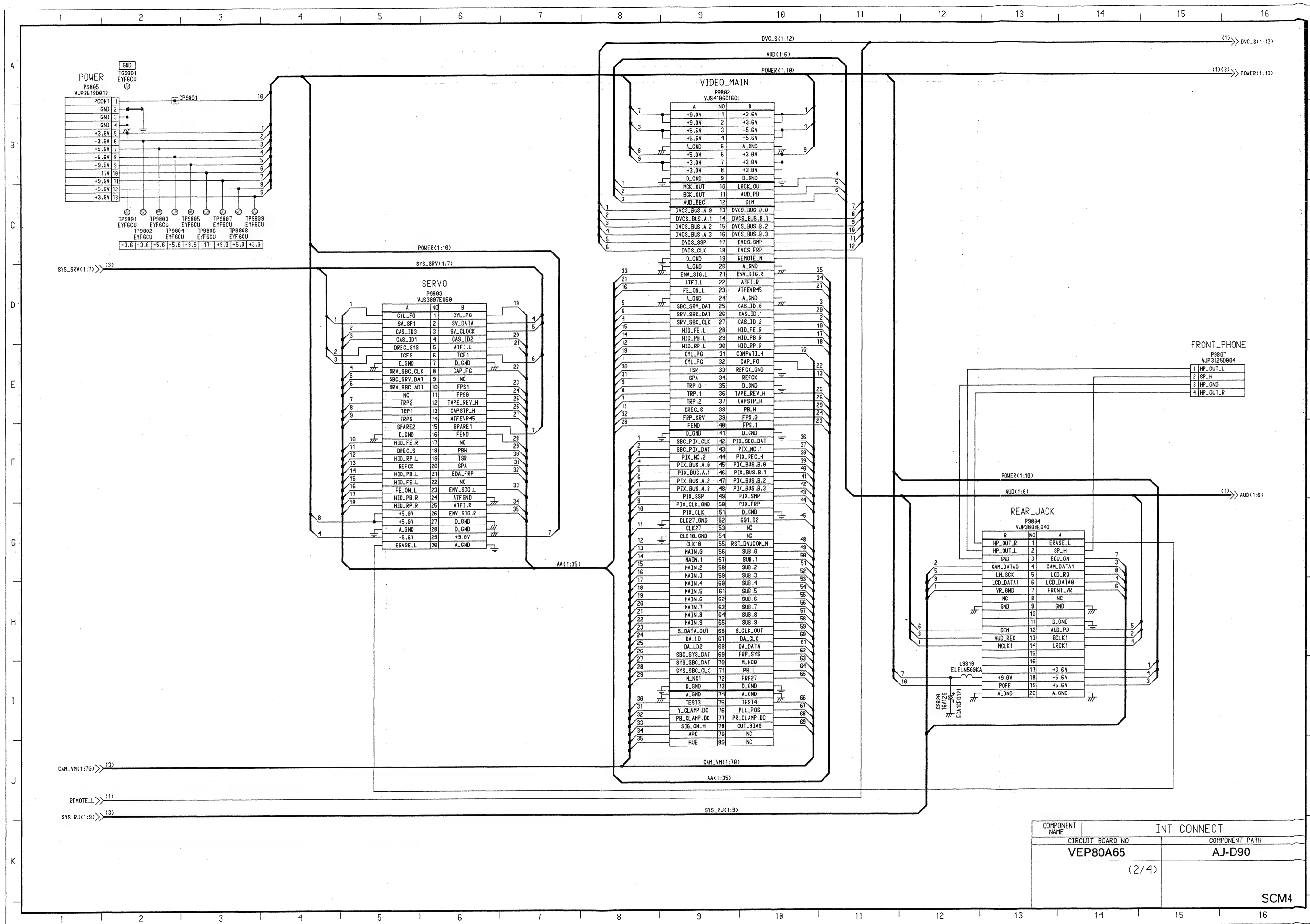








COMPONENT NAME	INT_CONNECT
CIRCUIT BOARD NO	COMPONENT PATH
VEP80A65	AJ-D90
(1/4)	
SCM3	



POWER(1:10) (2)

(2) SYS_RJ(1:9)

(1) BS(1:16)

MAIN_FLEX

P9608

V.P3888E168

B	NO	A
+5.6V	1	+5.6V
+5.6V	2	+5.6V
+5.6V	3	+5.6V
+5.6V	4	+5.6V
+3.0V	5	+3.6V
+3.0V	6	+3.6V
+3.0V	7	+3.6V
+3.0V	8	+3.6V
+3.0V	9	+3.6V
+3.0V	10	-5.6V
+9.0V	11	-5.6V
+9.0V	12	-5.6V
17V	13	-11V
17V	14	-11V
D.GND	15	A.GND
D.GND	16	A.GND
REMOTE_L	17	OPT_L
36M_SDI	18	NC
CAM_CONT	19	VRESET
CAM_DATA	20	H.CONT
PI_BS	21	ASPECT_BS
D.GND	22	TALLY_BS
D.GND	23	D.GND
VR_GND	24	FRONT_VR
A.GND	25	RET_SW
A.GND	26	COM_SEL
D.GND	27	D.GND
CAM_DATA0	28	D.GND
CAM_DATA1	29	EQU_ON
LCD_DATA0	30	LCD_R0
LIN_SCK	31	LCD_DATA1
D.GND	32	D.GND
PIX_SBC_CLK	33	PIX_SBC_DAT
SBC_PIX_DAT	34	PIX_NC.1
PIX_NC.2	35	PIX_REC.H
PIX_BUS.A.0	36	PIX_BUS.B.0
PIX_BUS.A.1	37	PIX_BUS.B.1
PIX_BUS.A.2	38	PIX_BUS.B.2
PIX_BUS.A.3	39	PIX_BUS.B.3
PIX_SSP	40	PIX_SMP
PIX_CLK_GND	41	PIX_FRP
PIX_CLK	42	D.GND
CLK27_GND	43	601D2
CLK27	44	SDI_HD
CLK18_GND	45	SDI_CLK27A
CLK18	46	RST_DVUCCH.N
MAIN.0	47	SUB.0
MAIN.1	48	SUB.1
MAIN.2	49	SUB.2
MAIN.3	50	SUB.3
MAIN.4	51	SUB.4
MAIN.5	52	SUB.5
MAIN.6	53	SUB.6
MAIN.7	54	SUB.7
MAIN.8	55	SUB.8
MAIN.9	56	SUB.9
S_DATA_OUT	57	S_CLK_OUT
DA_LD	58	DA_CLK
DA_LD2	59	DA_DATA
SBC_SYS_DAT	60	FRP_SYS
SYS_SBC_DAT	61	NC
SYS_SBC_CLK	62	PB_L
H_NC1	63	FRP27
D.GND	64	D.GND
TEST3	65	TEST4
Y_CLAMP_DC	66	PLL_POS
PB_CLAMP_DC	67	PR_CLAMP_DC
STG_ON_H	68	OUT_BIAS
APC	69	COMPATI_H
HUE	70	P1_CAM
D.GND	71	D.GND
D.GND	72	D.GND
SV_SP.1	73	SV_DATA
DREC_SYS	74	SV_CLOCK
TCF0	75	TCF1
GPS_TXD	76	SPARE
GPS_RXD	77	GPS_12V
D.GND	78	GPS_12V
A.GND	79	A.GND
A.GND	80	A.GND

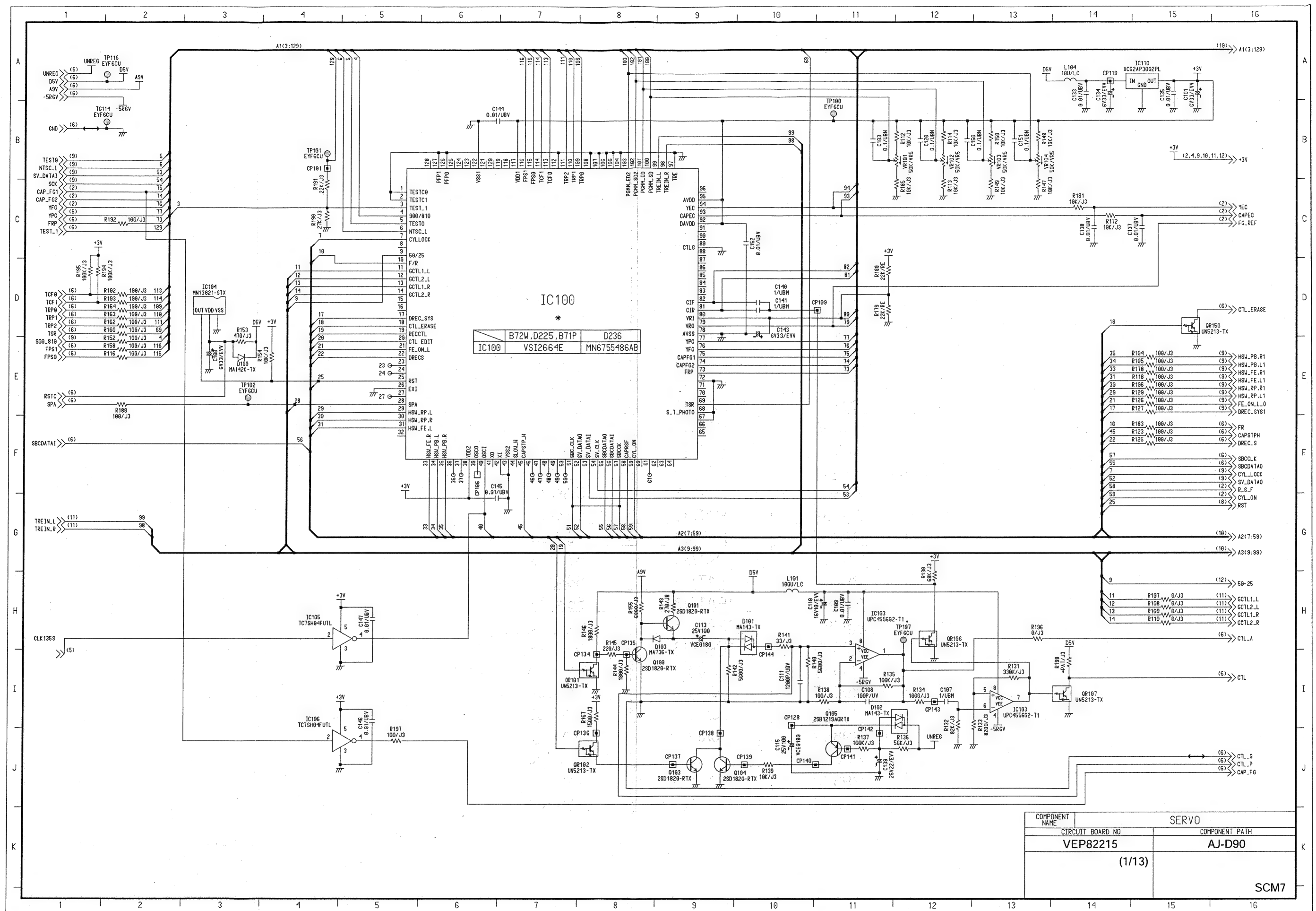
F01 F02 F03 F04

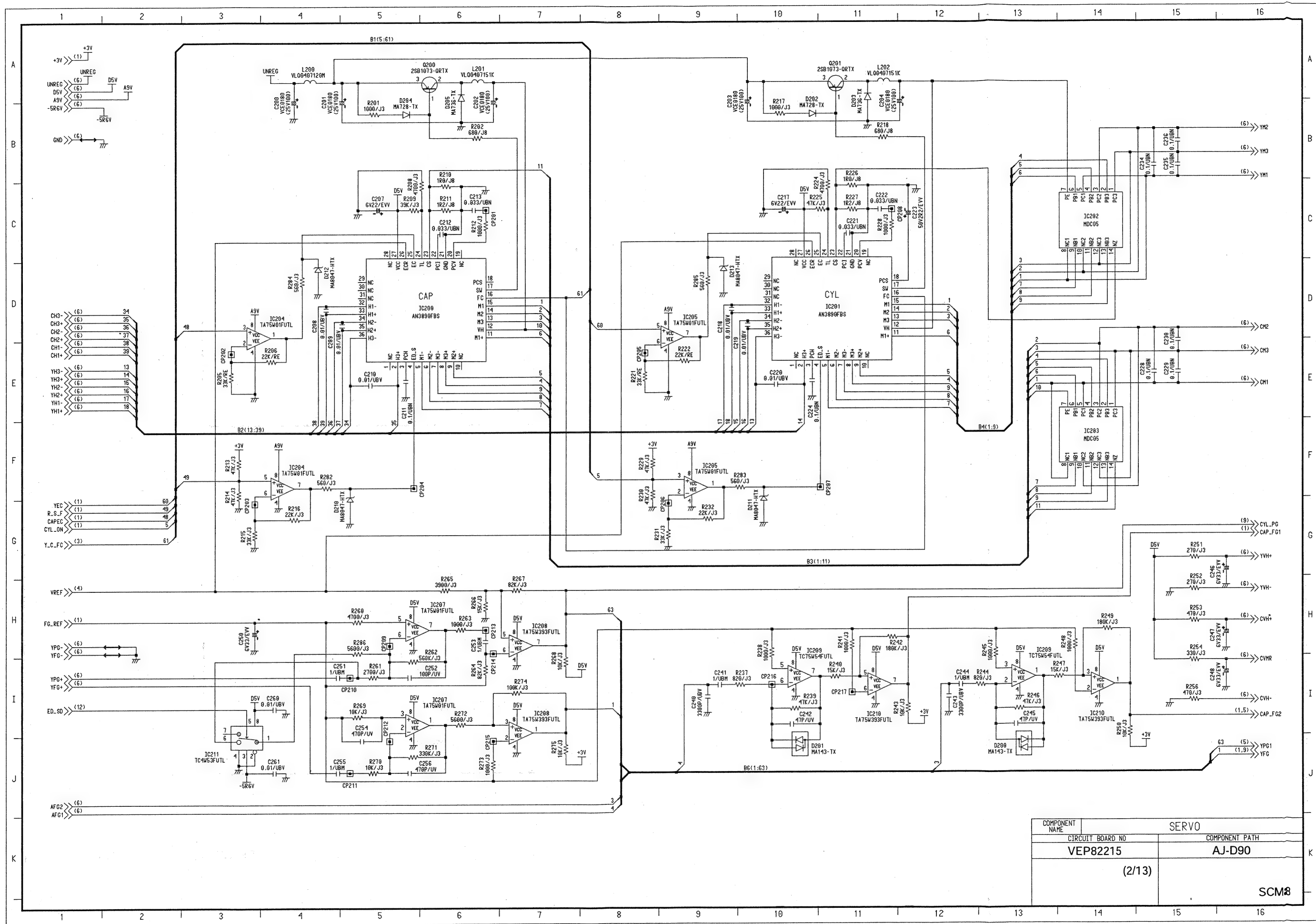
GPS
P9808
V.P31250005
GPS_12V 1
GPS_TXD 2
GPS_RXD 3
D.GND 4
NC 5

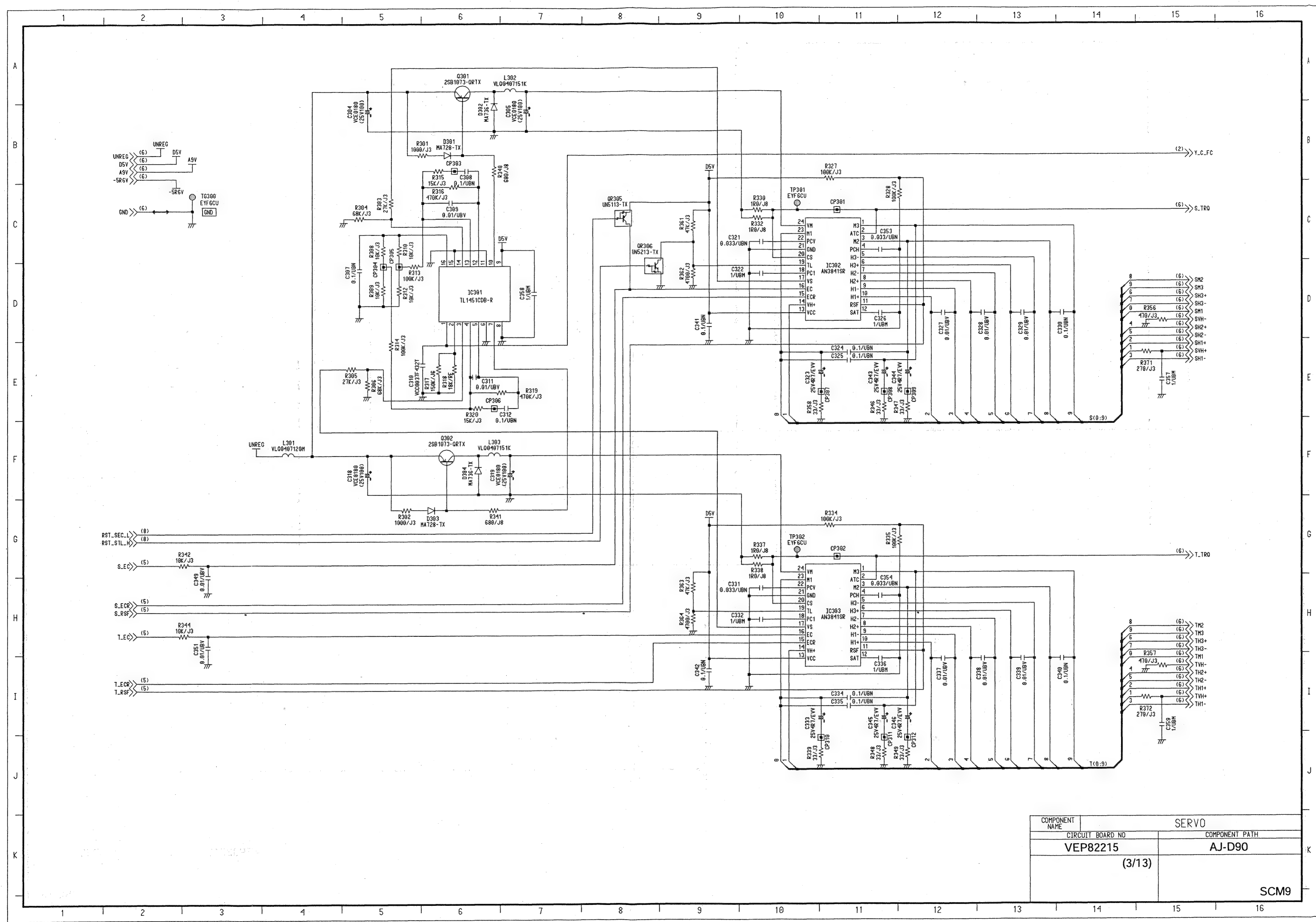
COMPONENT NAME	INT CONNECT
CIRCUIT BOARD NO	COMPONENT PATH
VEP80A65	AJ-D90
(3/4)	
SCM5	

\$REF\$	AJ-PD900W	AJ-D810/D900W/D90
C9807	*PAT/UFV	0.1/UFV
C9808	*PAT/UFV	0.1/UFV
C9809	*PAT/UFV	0.1/UFV
C9810	*PAT/UFV	0.1/UFV
IC9606	*PAT	MC74HC4053FR
IC9607	*PAT	MC74HC4053FR
L9806	*PAT/LC	100U/LC
R9811	*PAT/J3	*PAT/J3
R9853	*PAT/J3	100/J3
R9854	*PAT/J3	100/J3
R9855	*PAT/J3	56K/J3
R9856	*PAT/J3	100/J3
R9857	*PAT/J3	100/J3
R9858	*PAT/J3	56K/J3
R9859	*PAT/J3	56K/J3
R9860	*PAT/J3	56K/J3
R9861	*PAT/J3	56K/J3
R9862	*PAT/J3	56K/J3
R9863	*PAT/J3	56K/J3
R9864	*PAT/J3	*PAT/J3
R9865	*PAT/J3	56K/J3
R9866	0/J3	*PAT/J3
R9867	0/J3	*PAT/J3
R9868	0/J3	*PAT/J3
R9869	0/J3	*PAT/J3
R9870	0/J3	*PAT/J3
R9872	*PAT/J3	*PAT/J3
R9873	*PAT/J3	*PAT/J3

COMPONENT NAME	INT CONNECT
CIRCUIT BOARD NO	COMPONENT PATH
VEP80A65	AJ-D90
(4/4)	SCM6

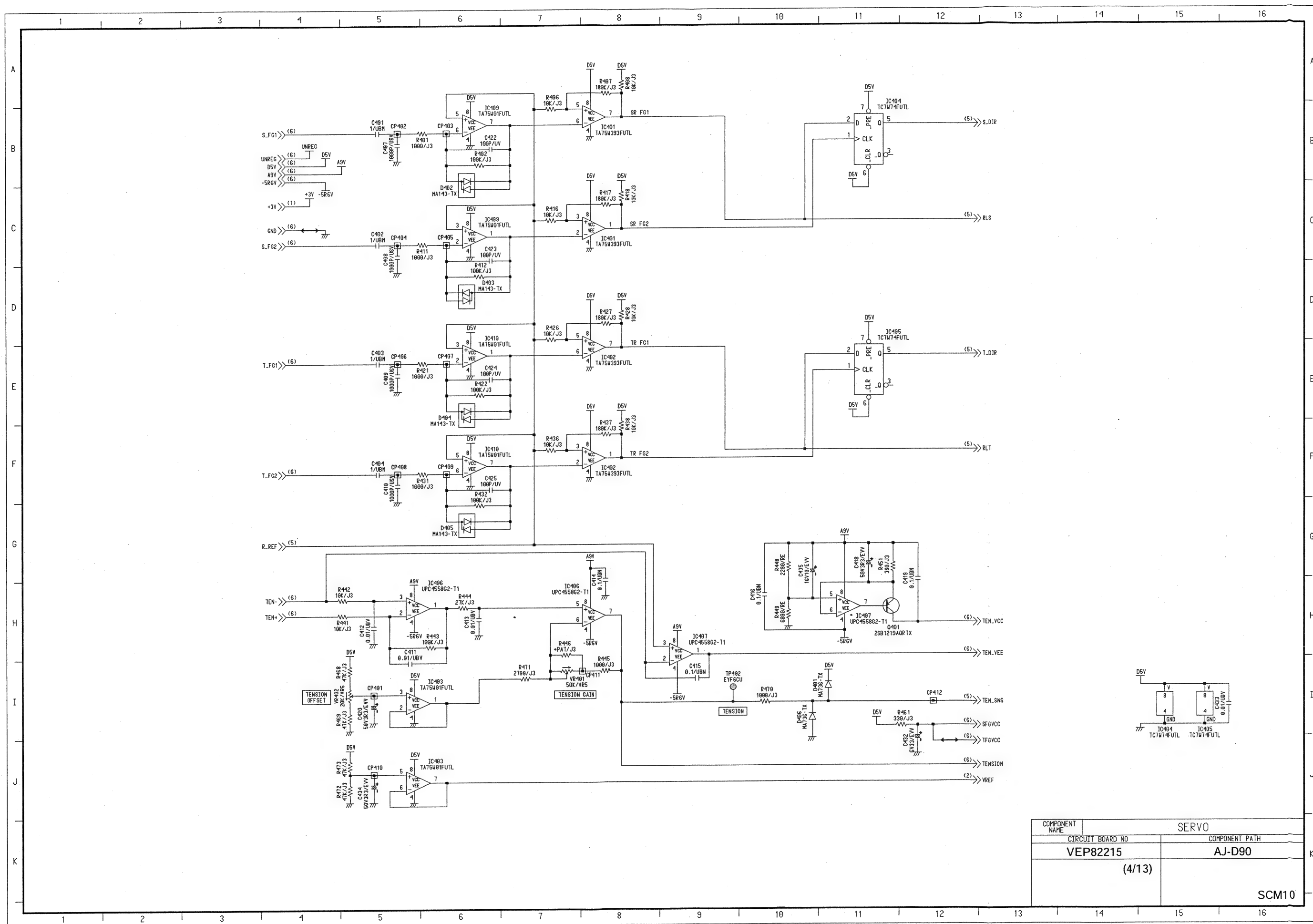




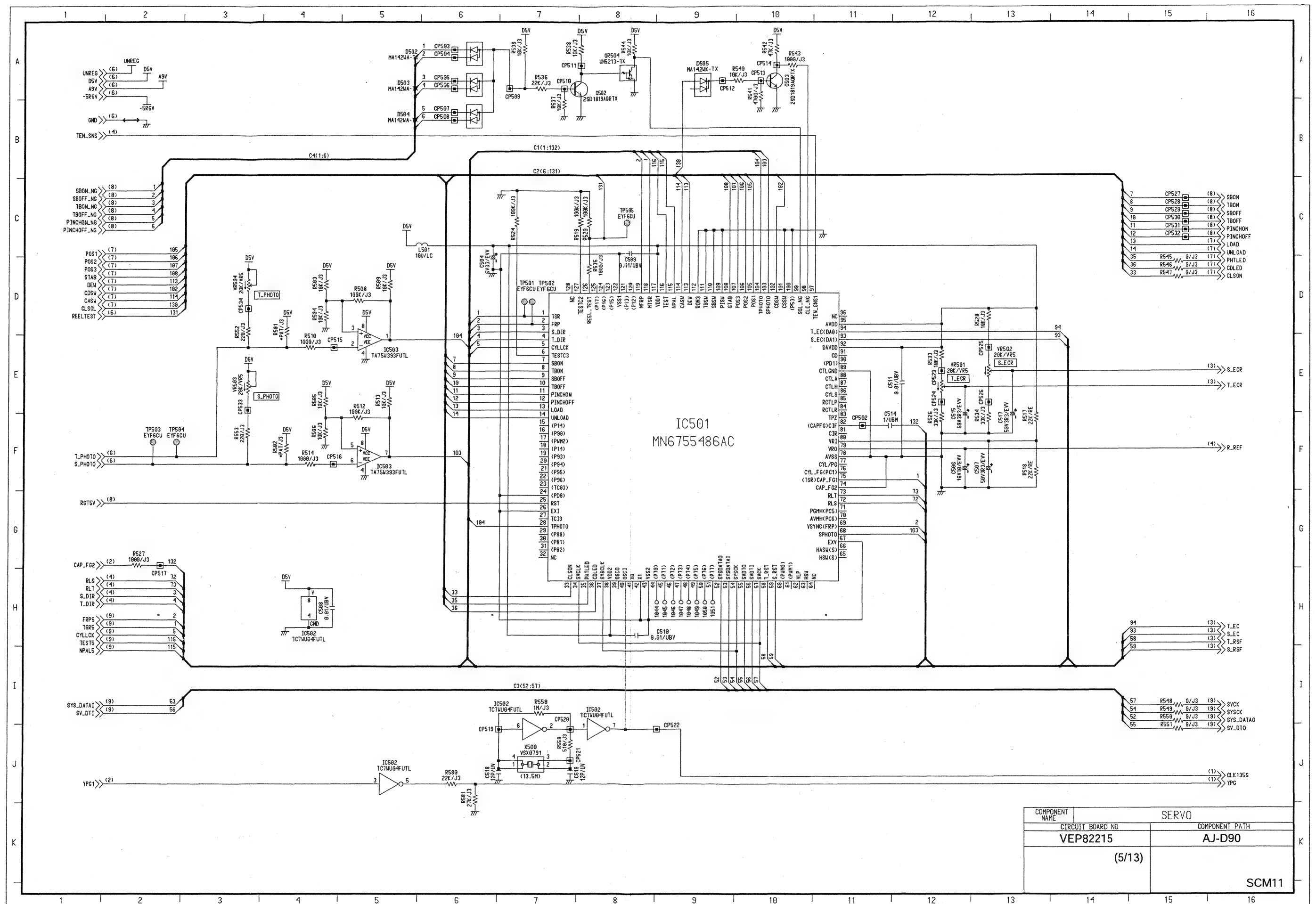


COMPONENT NAME	SERVO	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP82215	AJ-D90	
(3/13)		

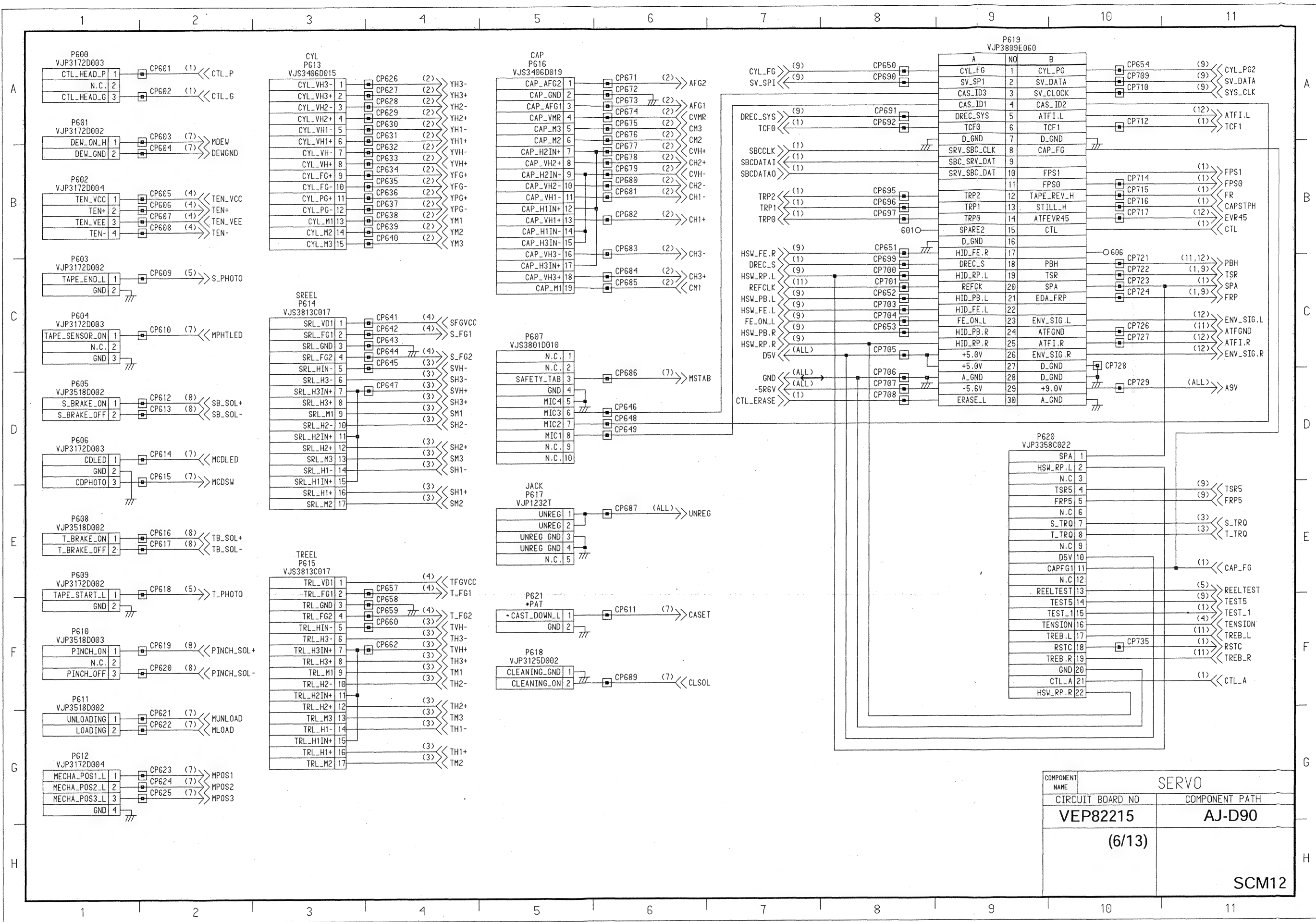
SCM9



COMPONENT NAME		SERVO	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP82215		AJ-D90	
(4/13)		SCM10	

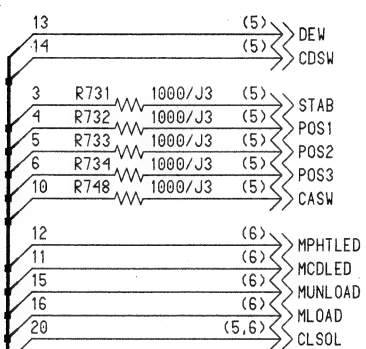
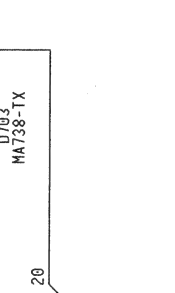
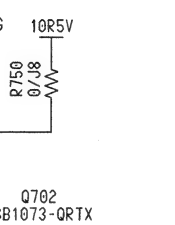
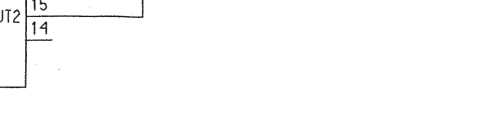
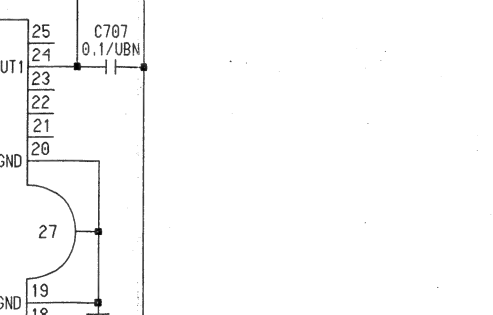
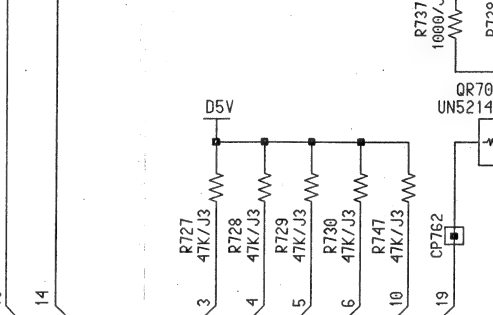
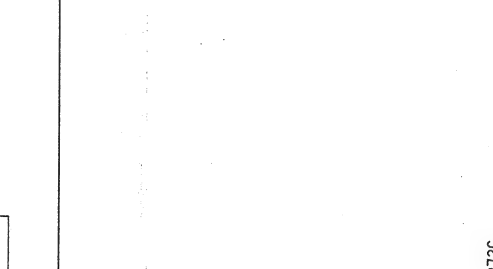
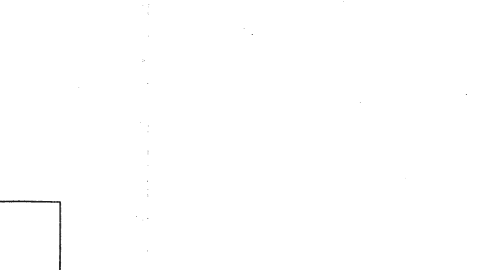
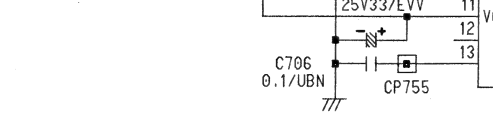
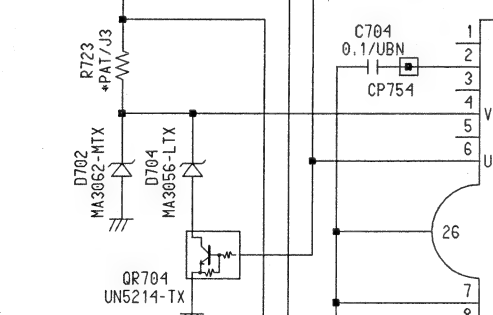
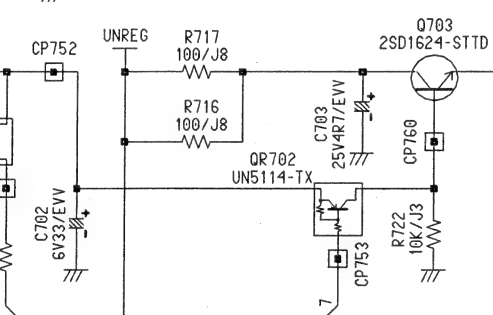
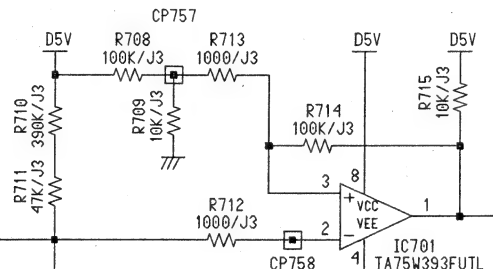
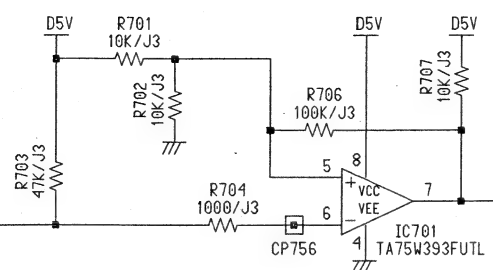
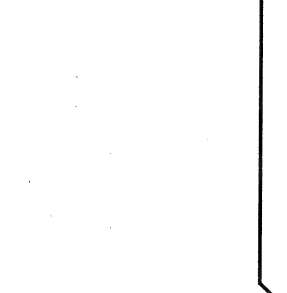
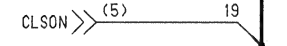
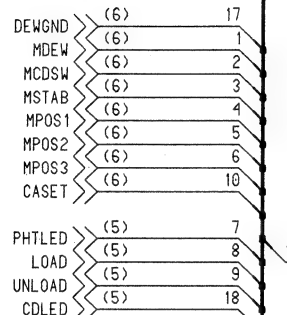
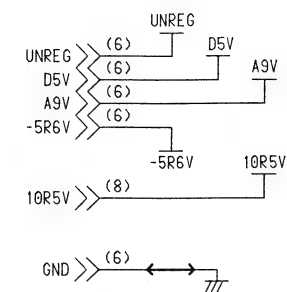


COMPONENT NAME	SERVO	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP82215	AJ-D90	
(5/13)	SCM11	

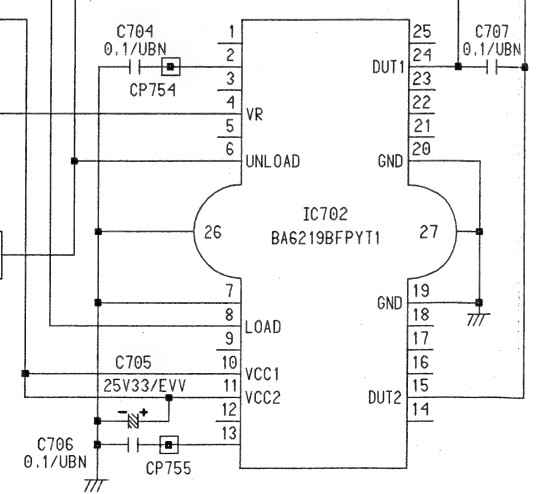


COMPONENT NAME		SERVO
CIRCUIT BOARD NO		COMPONENT PATH
VEP82215		AJ-D90
(6/13)		
		SCM12

1 2 3 4 5 6 7 8 9 10 11

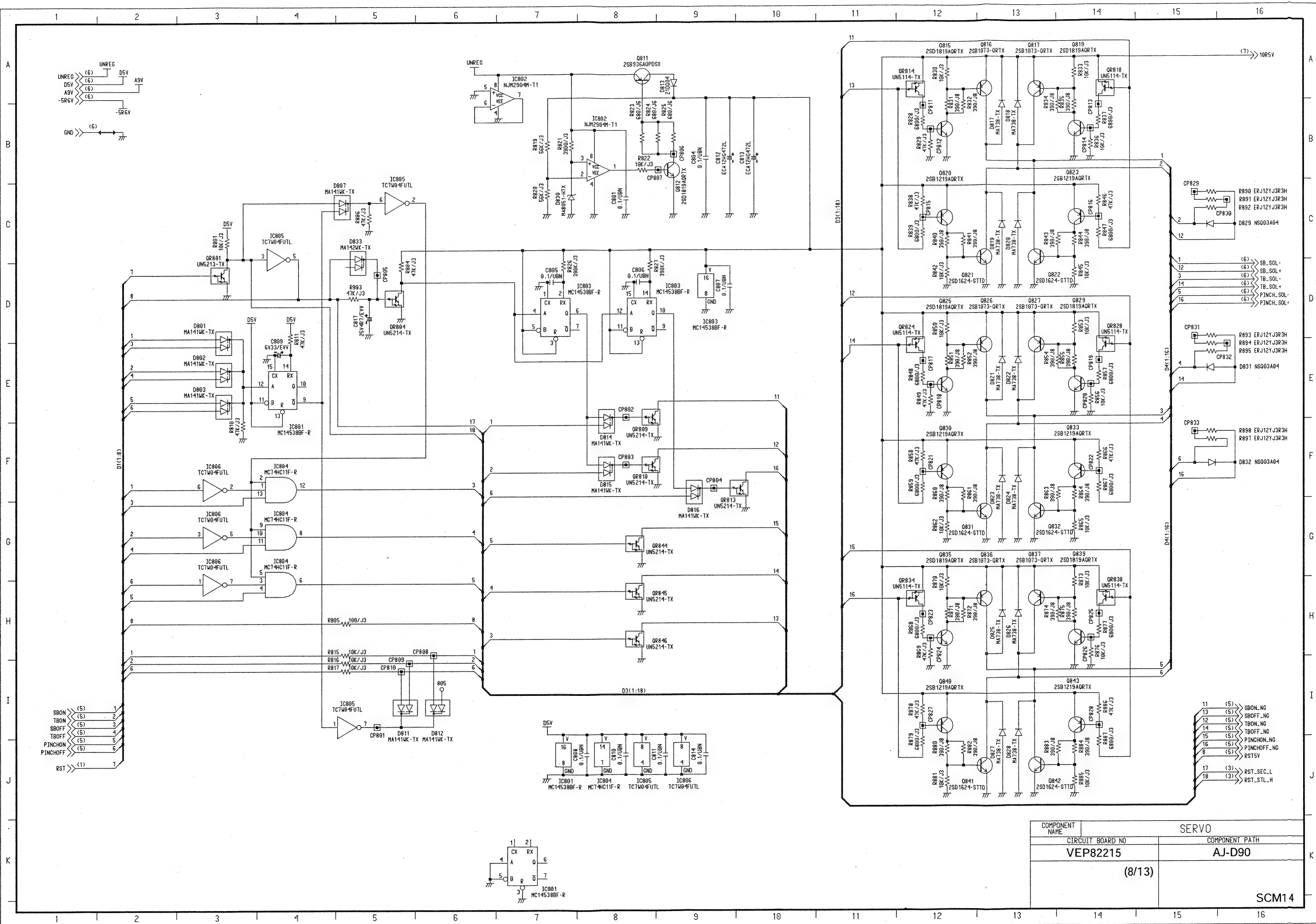


D(1:20)

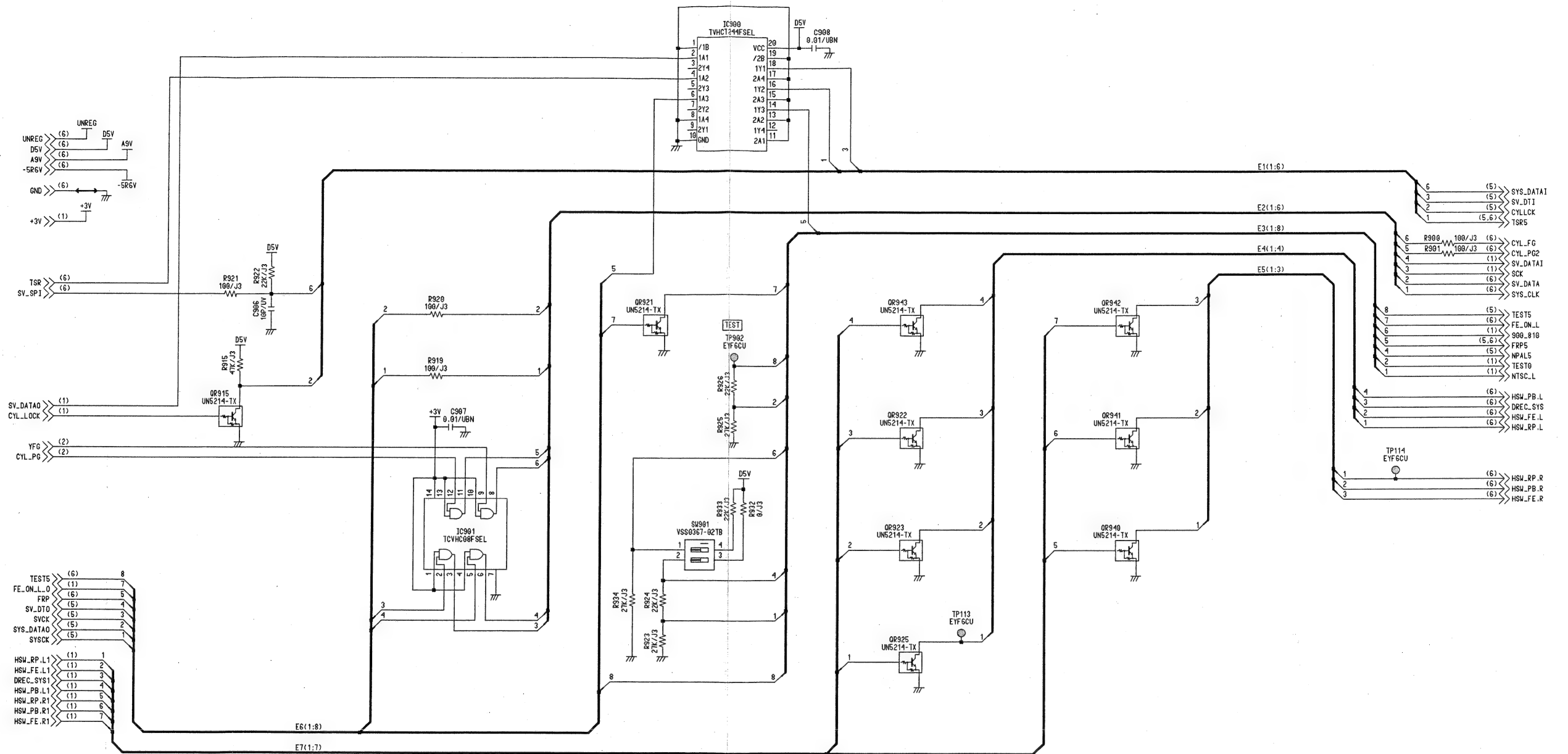


COMPONENT NAME	SERVO
CIRCUIT BOARD NO	VEP82215
COMPONENT PATH	AJ-D90
	(7/13)
	SCM13

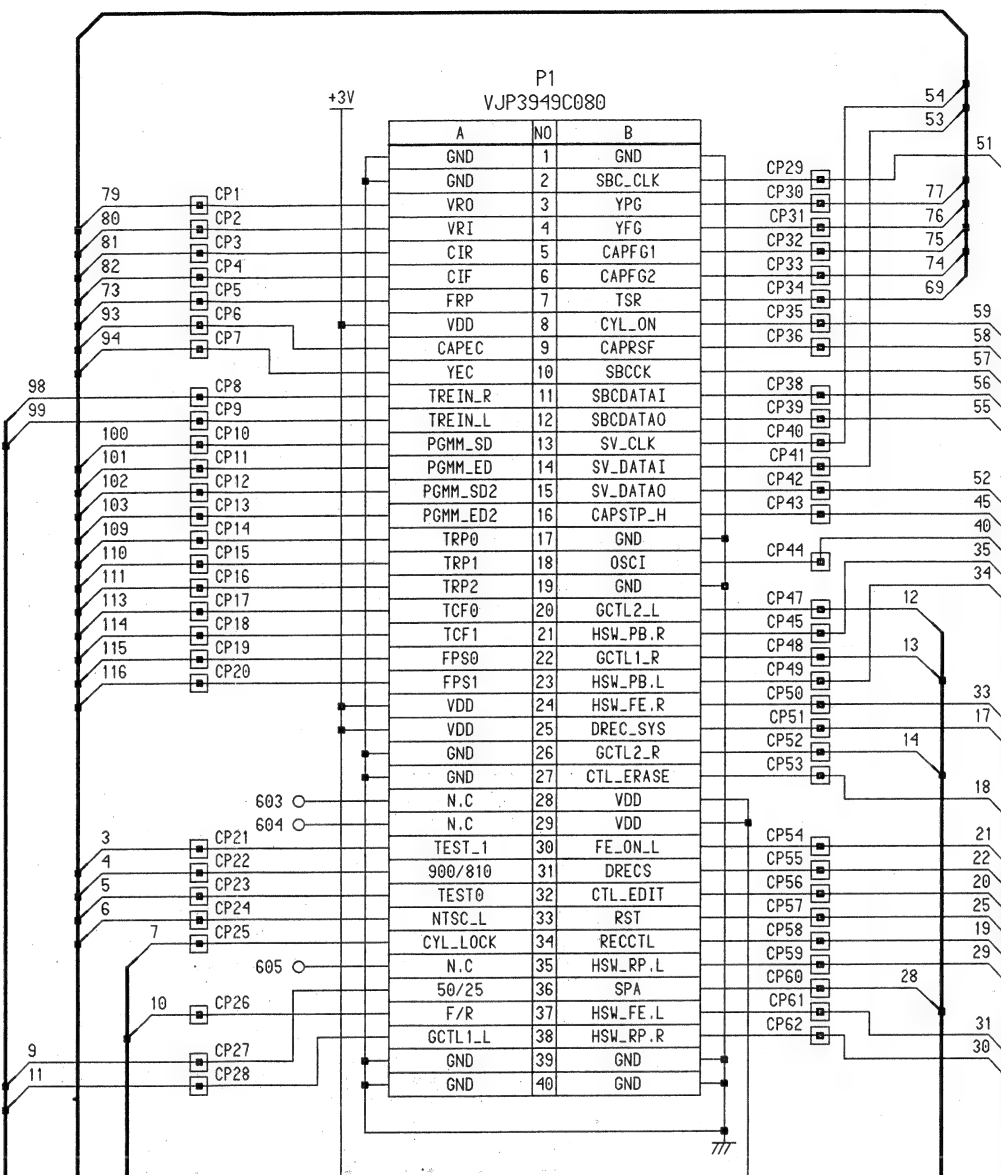
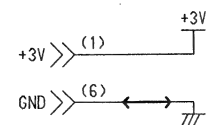
1 2 3 4 5 6 7 8 9 10 11



COMPONENT NAME		SERVO	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP82215		AJ-D90	
(8/13)		SCM14	

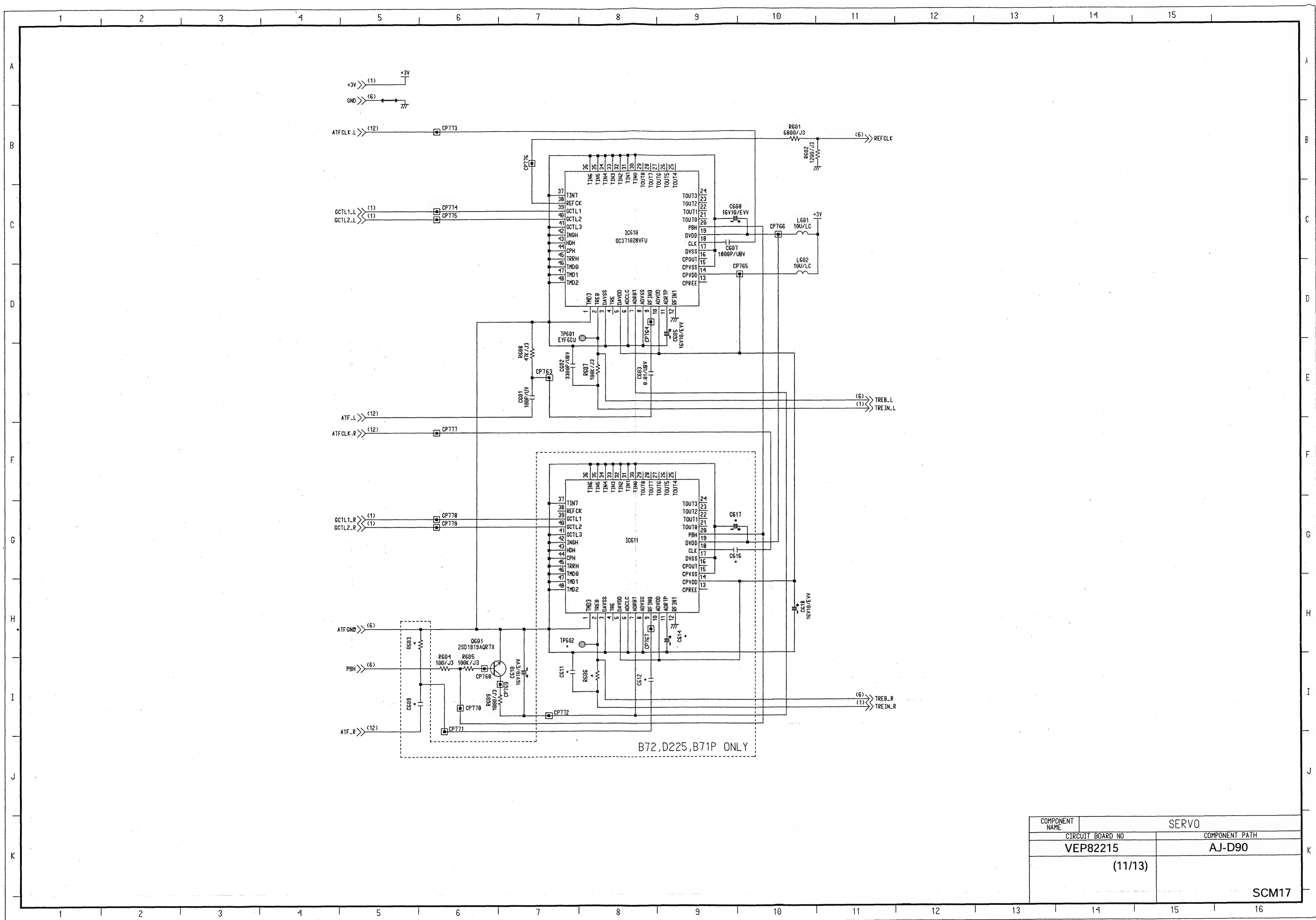


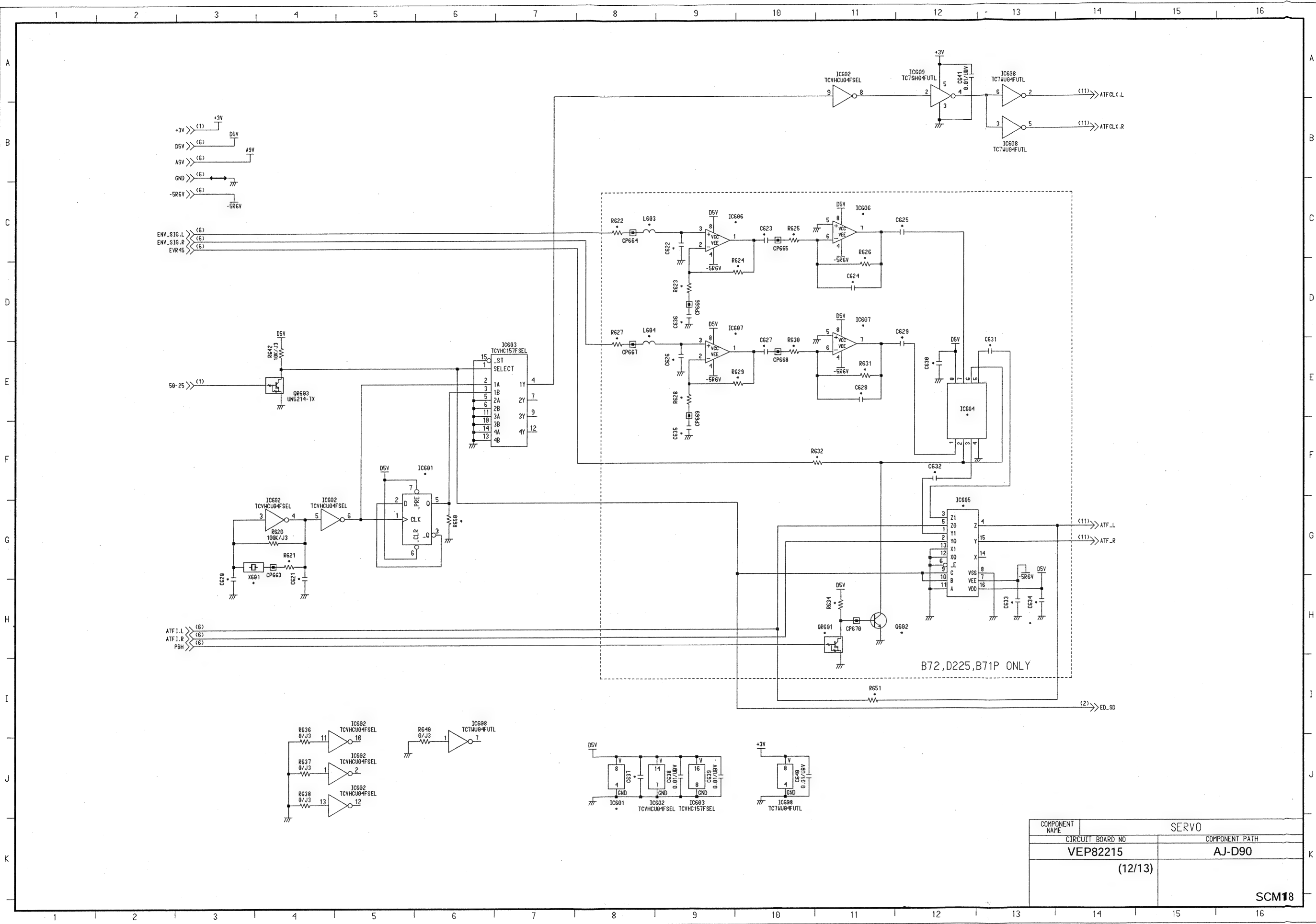
COMPONENT NAME	SERVO	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP82215	AJ-D90	
(9/13)	SCM15	



A1(3:129) (1)
 A2(7:59) (1)
 A3(9:99) (2)

COMPONENT NAME	SERVO
CIRCUIT BOARD NO	COMPONENT PATH
VEP82215	AJ-D90
(10/13)	
	SCM16

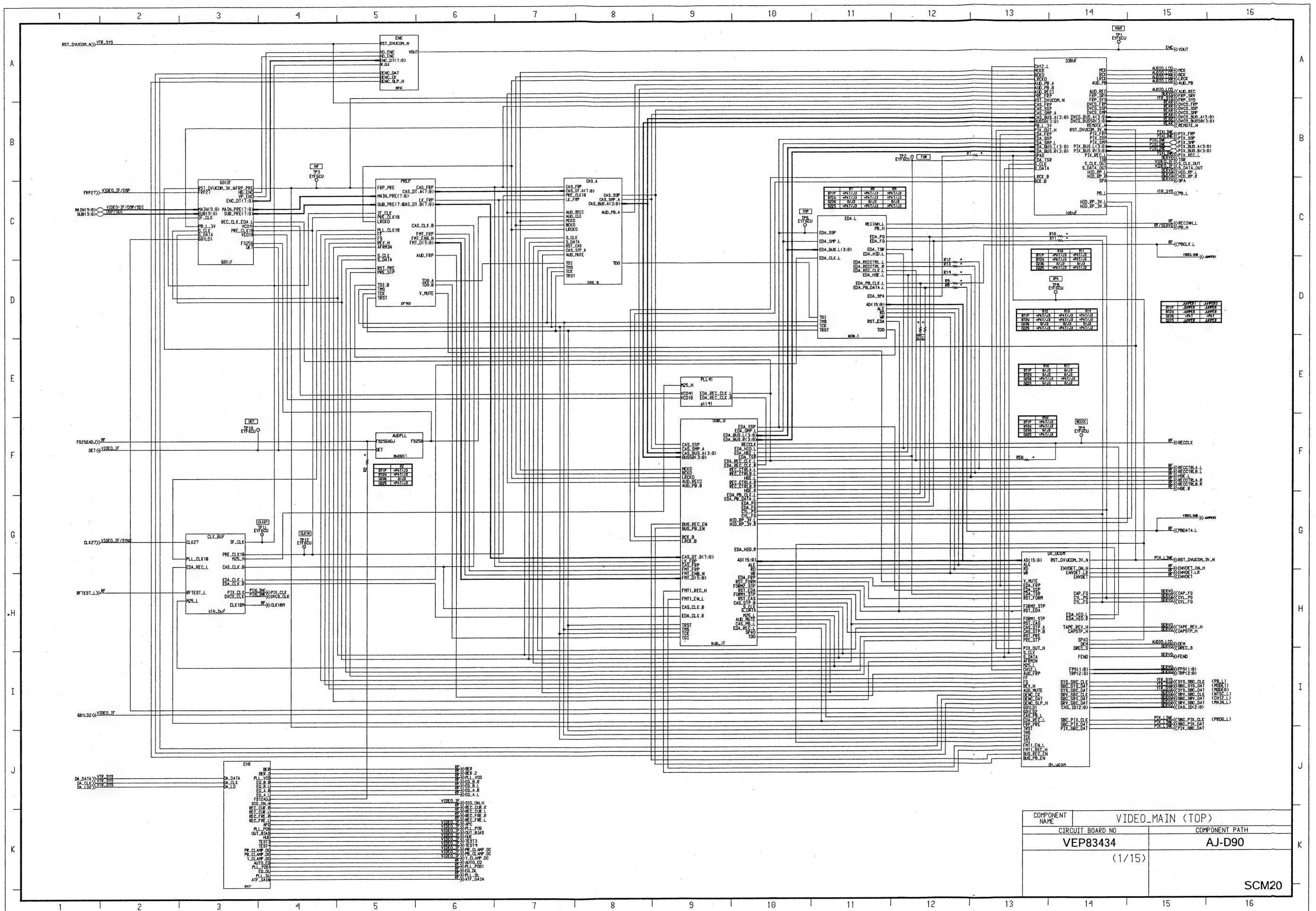


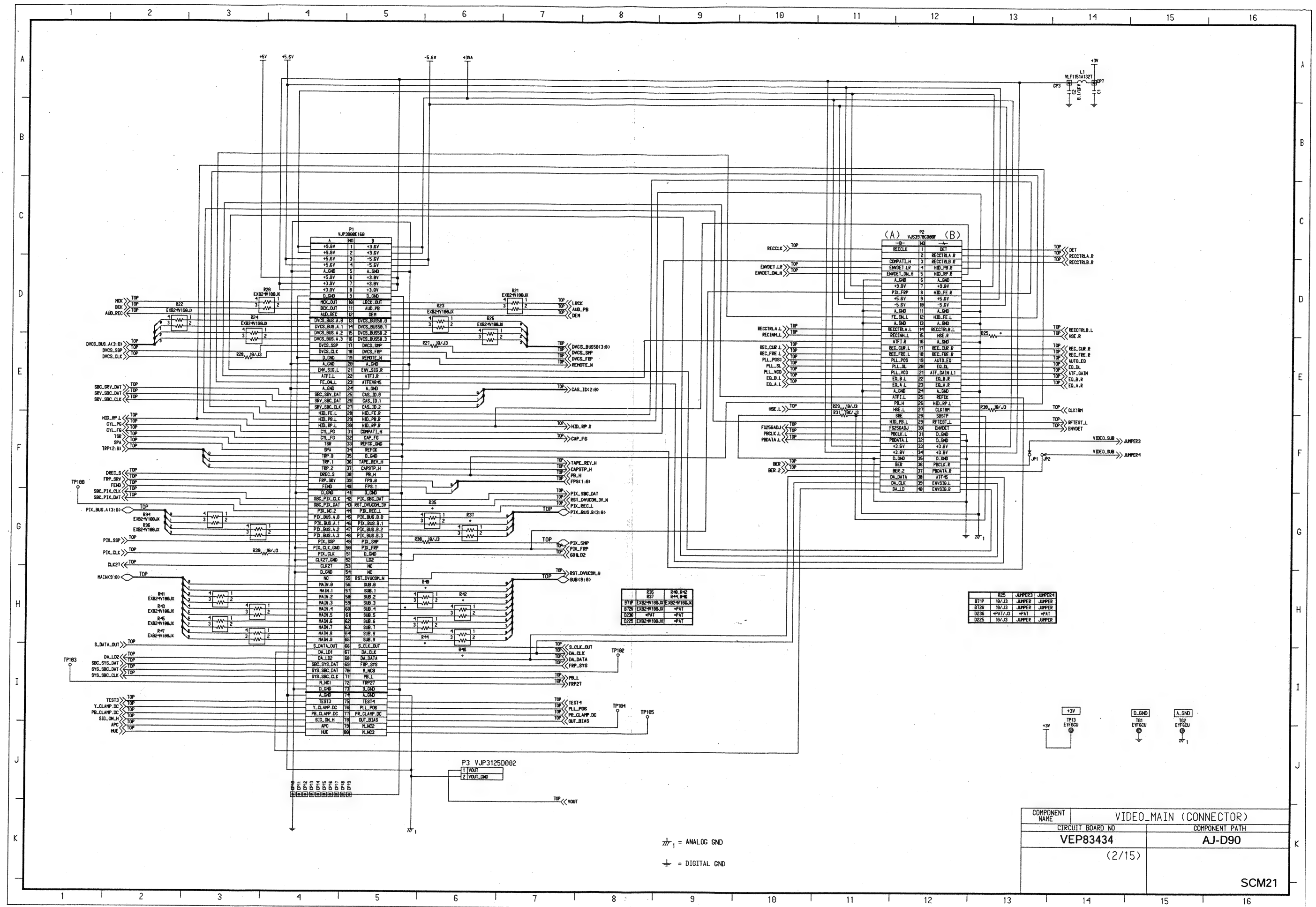


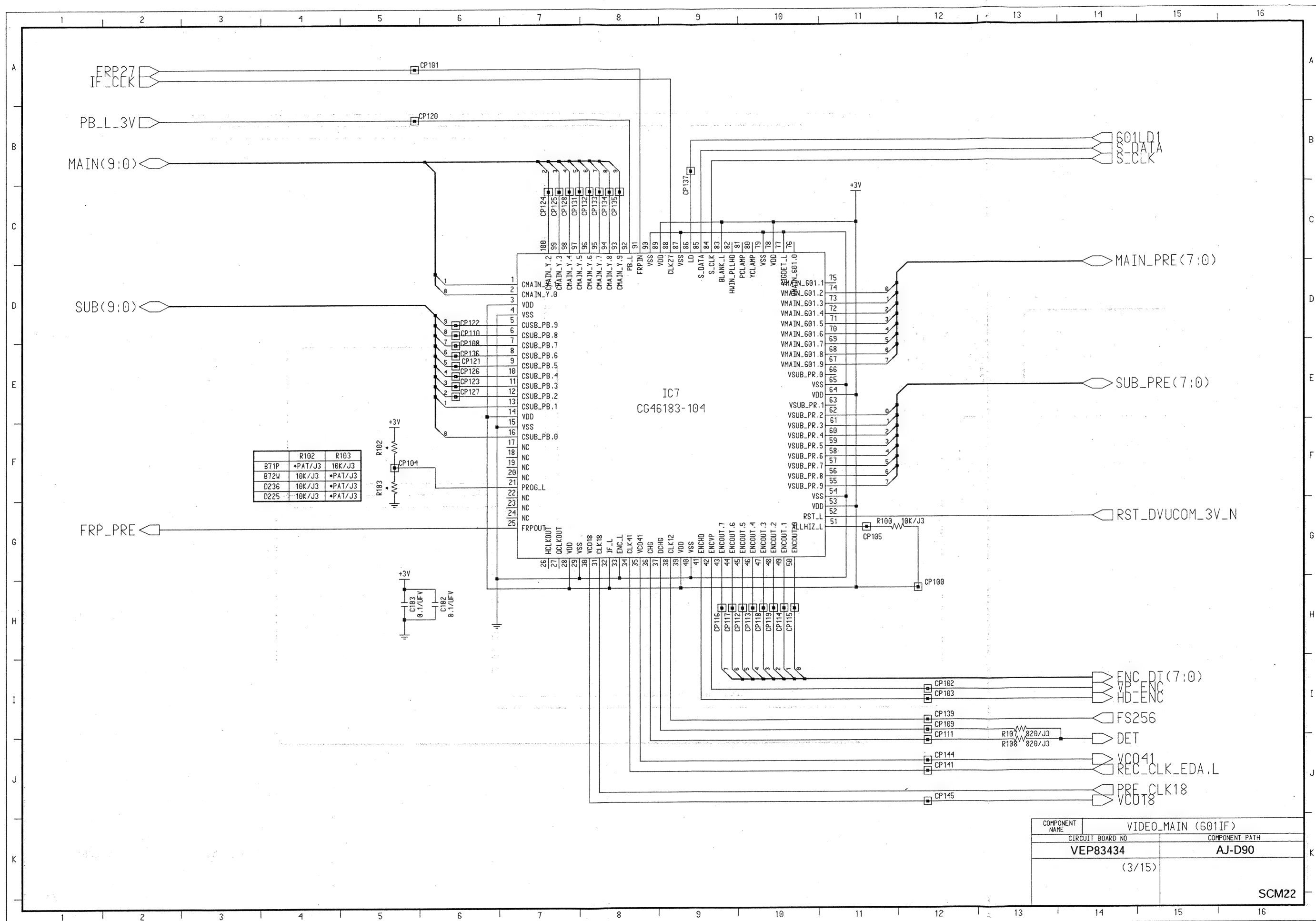
COMPONENT NAME	SERVO	
CIRCUIT BOARD NO	VEP82215	
COMPONENT PATH	AJ-D90	
	(12/13)	
	SCM18	

\$REF\$	AJ-D900W/PD900W/D90	D236	\$REF\$	AJ-D900W/PD900W/D90	D236
C609	100P/UV	*PAT/UV	L603	100U/LC	*PAT/LC
C611	3300P/UBV	*PAT/UBV	L604	100U/LC	*PAT/LC
C612	0.01/UBV	*PAT/UBV	P621	*PAT	*PAT
C614	16V10/EVV	*PAT/EVV	Q602	2SD1820-RTX	*PAT
C616	1800P/UBV	*PAT/UBV	QR601	UN5214-TX	*PAT
C617	16V10/EVV	*PAT/EVV	R198	*PAT/J3	*PAT/J3
C620	5P/UV	8P/UV	R446	*PAT/J3	*PAT/J3
C621	5P/UV	8P/UV	R501	*PAT/J3	*PAT/J3
C622	1500P/UBV	*PAT/UBV	R502	*PAT/J3	*PAT/J3
C623	330P/UV	*PAT/UV	R603	47K/J3	*PAT/J3
C624	15P/UV	*PAT/UV	R606	100K/J3	*PAT/J3
C625	0.1/UBN	*PAT/UBN	R621	270/J3	100/J3
C626	1500P/UBV	*PAT/UBV	R622	120/J3	*PAT/J3
C627	330P/UV	*PAT/UV	R623	1800/J3	*PAT/J3
C628	15P/UV	*PAT/UV	R624	10K/J3	*PAT/J3
C629	0.1/UBN	*PAT/UBN	R625	2700/J3	*PAT/J3
C630	0.01/UBV	*PAT/UBV	R626	10K/J3	*PAT/J3
C631	0.1/UBN	*PAT/UBN	R627	120/J3	*PAT/J3
C632	0.1/UBN	*PAT/UBN	R628	1800/J3	*PAT/J3
C633	0.01/UBV	*PAT/UBV	R629	10K/J3	*PAT/J3
C634	0.01/UBV	*PAT/UBV	R630	2700/J3	*PAT/J3
C635	0.1/UBN	*PAT/UBN	R631	10K/J3	*PAT/J3
C636	0.1/UBN	*PAT/UBN	R632	10K/J3	*PAT/J3
C637	0.01/UBV	*PAT/UBV	R634	10K/J3	*PAT/J3
IC601	TC7W74FUTL	*PAT	R650	*PAT/J3	0/J3
IC604	CXA1211M	*PAT	R651	*PAT/J3	0/J3
IC605	MC14053BDTEL	*PAT	R723	*PAT/J3	*PAT/J3
IC606	UPC4082G2-T1	*PAT	R749	*PAT/J8	*PAT/J8
IC607	UPC4082G2-T1	*PAT	TP602	EYF6CU	*PAT
IC611	SC371028VFU	*PAT	X601	VSX0919	VSX0645-B

COMPONENT NAME		SERVO	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP82215		AJ-D90	
(13/13)			
		SCM19	

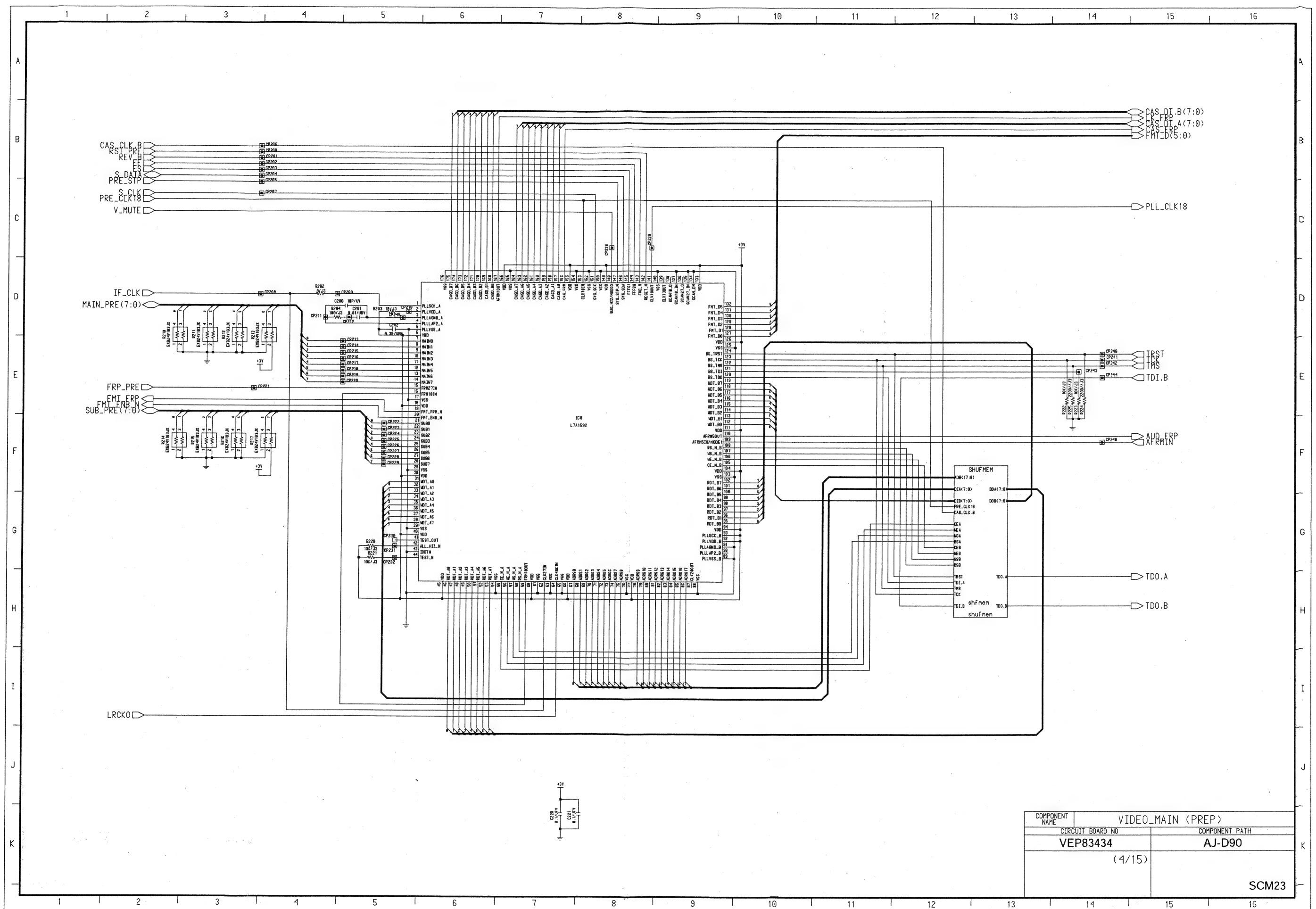




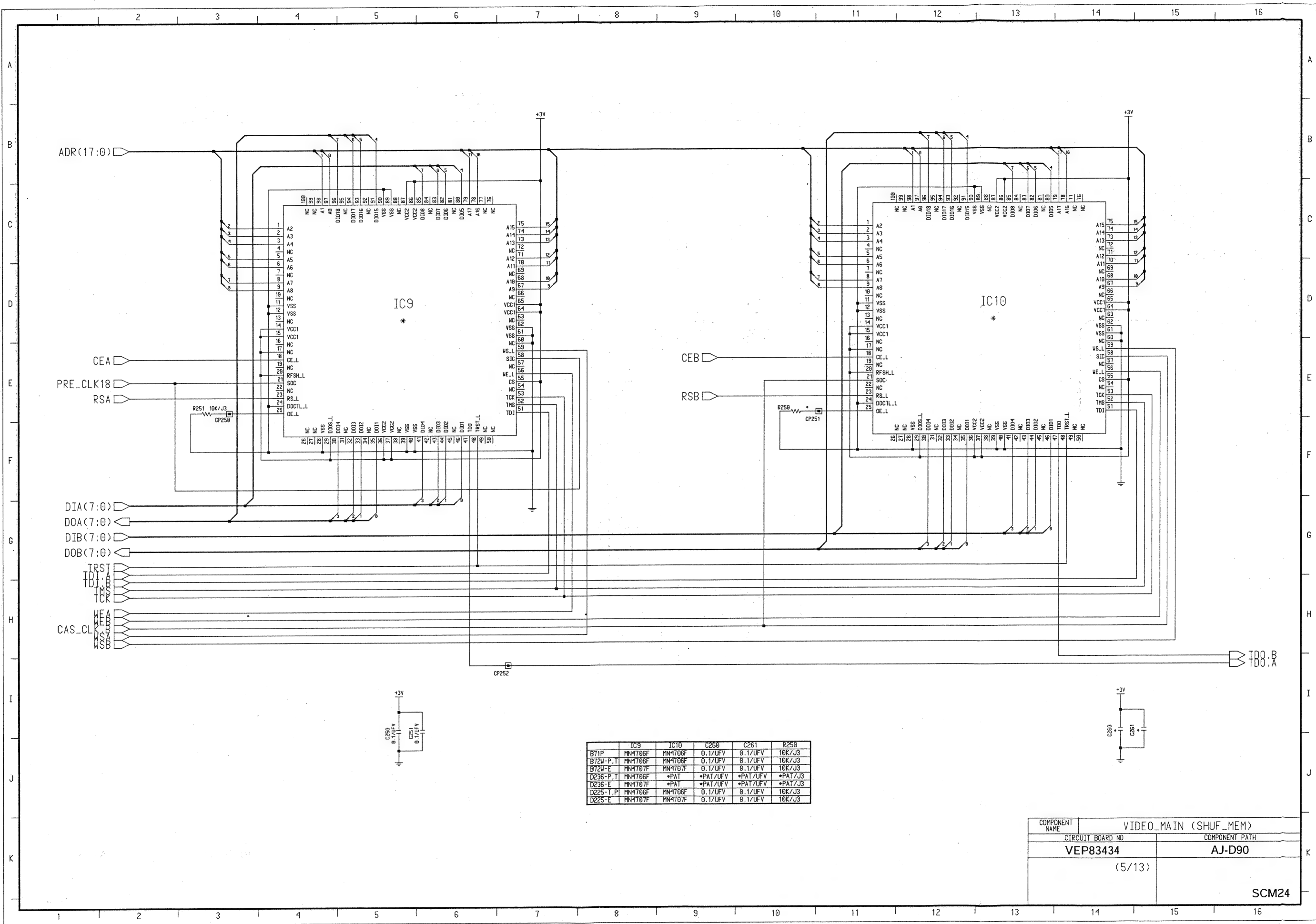


COMPONENT NAME	VIDEO_MAIN (601IF)	
	CIRCUIT BOARD NO	COMPONENT PATH
	VEP83434	AJ-D90
	(3/15)	

SCM22

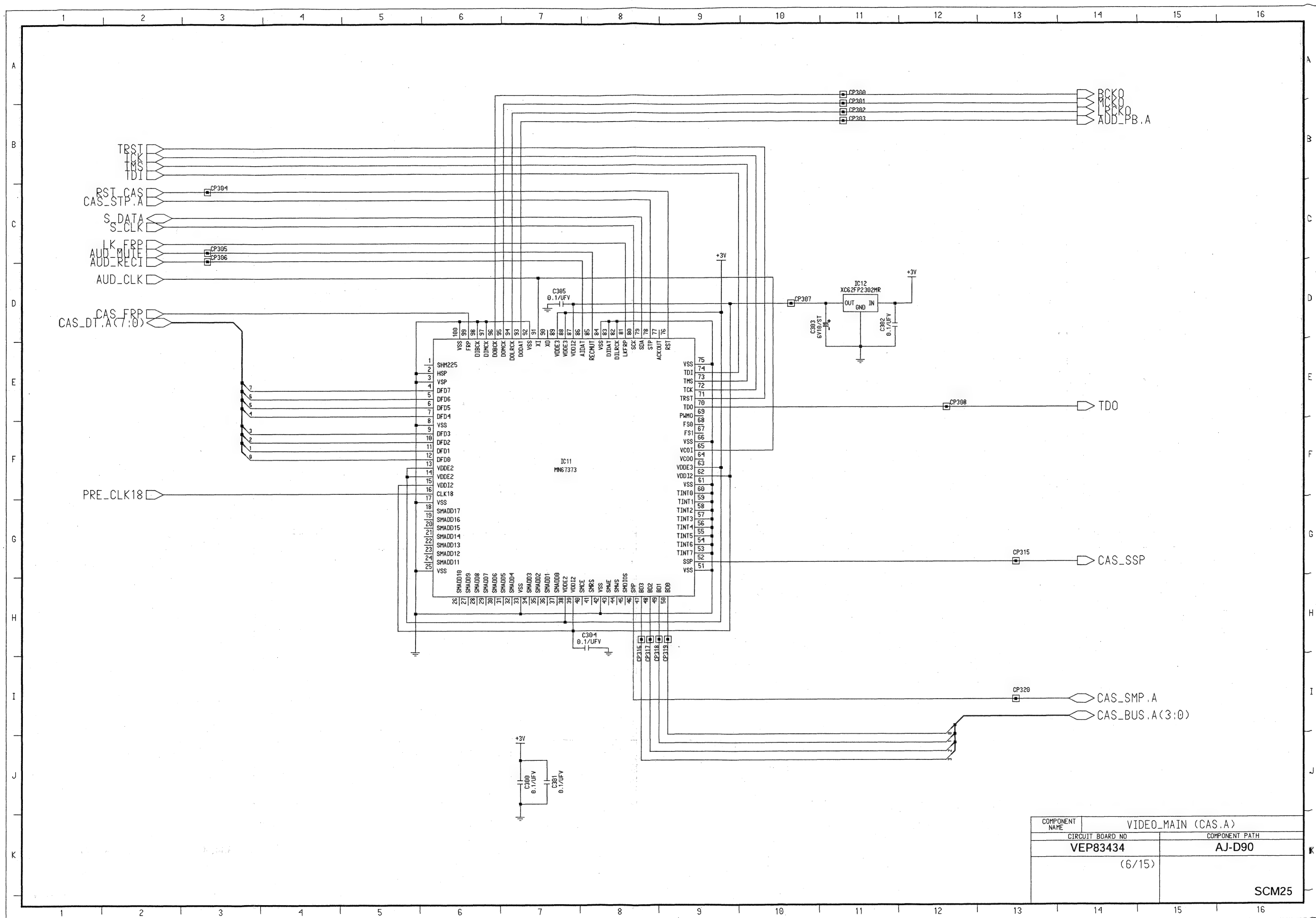


COMPONENT NAME	VIDEO_MAIN (PREP)	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP83434	AJ-D90	
(4/15)	SCM23	

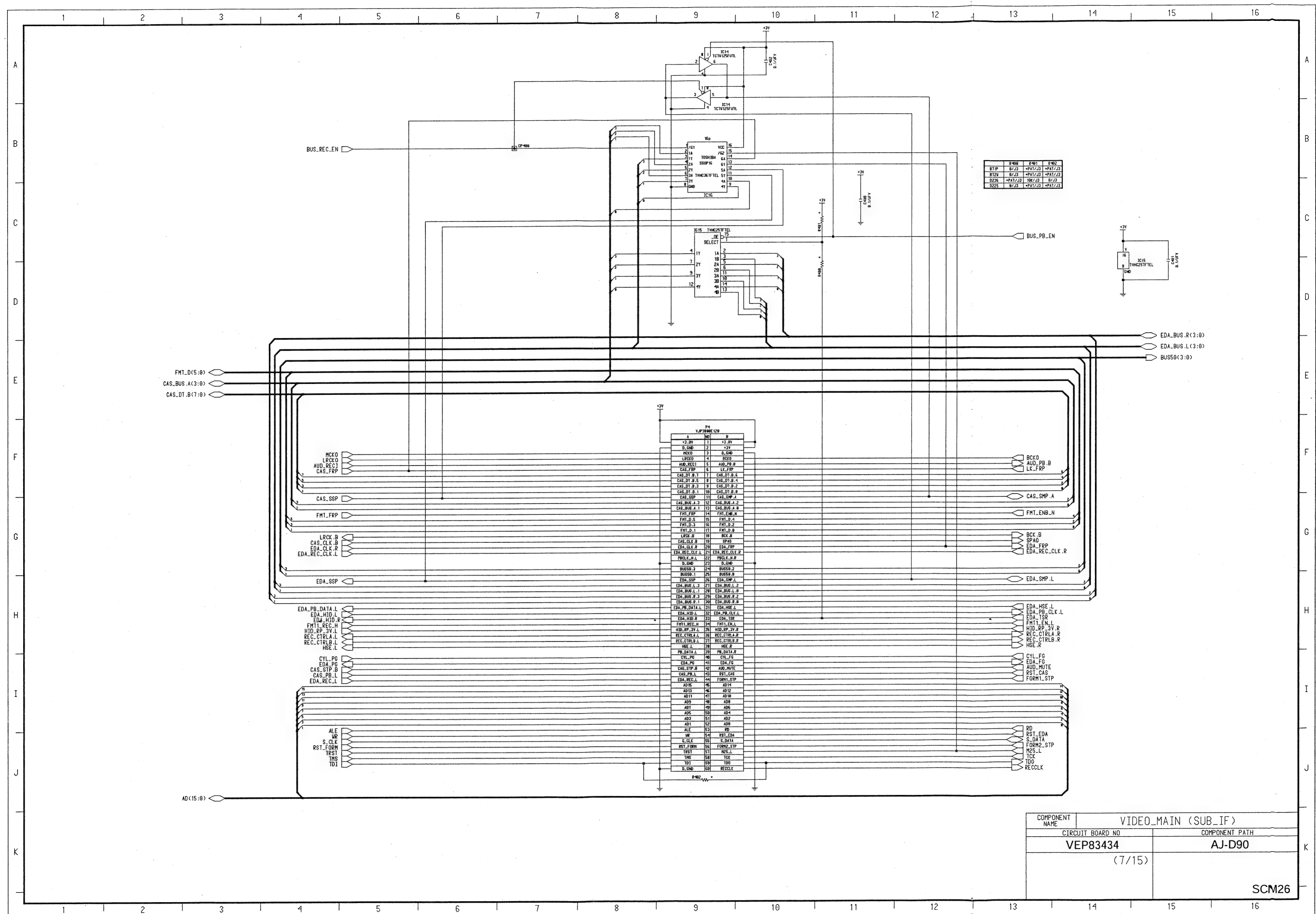


	IC9	IC10	C250	C251	R250
B71P	MN4706F	MN4706F	0.1/UFV	0.1/UFV	10K/J3
B72V-P.T	MN4706F	MN4706F	0.1/UFV	0.1/UFV	10K/J3
B72V-E	MN4707F	MN4707F	0.1/UFV	0.1/UFV	10K/J3
D236-P.T	MN4706F	*PAT	*PAT/UFV	*PAT/UFV	*PAT/J3
D236-E	MN4707F	*PAT	*PAT/UFV	*PAT/UFV	*PAT/J3
D225-T.P	MN4706F	MN4706F	0.1/UFV	0.1/UFV	10K/J3
D225-E	MN4707F	MN4707F	0.1/UFV	0.1/UFV	10K/J3

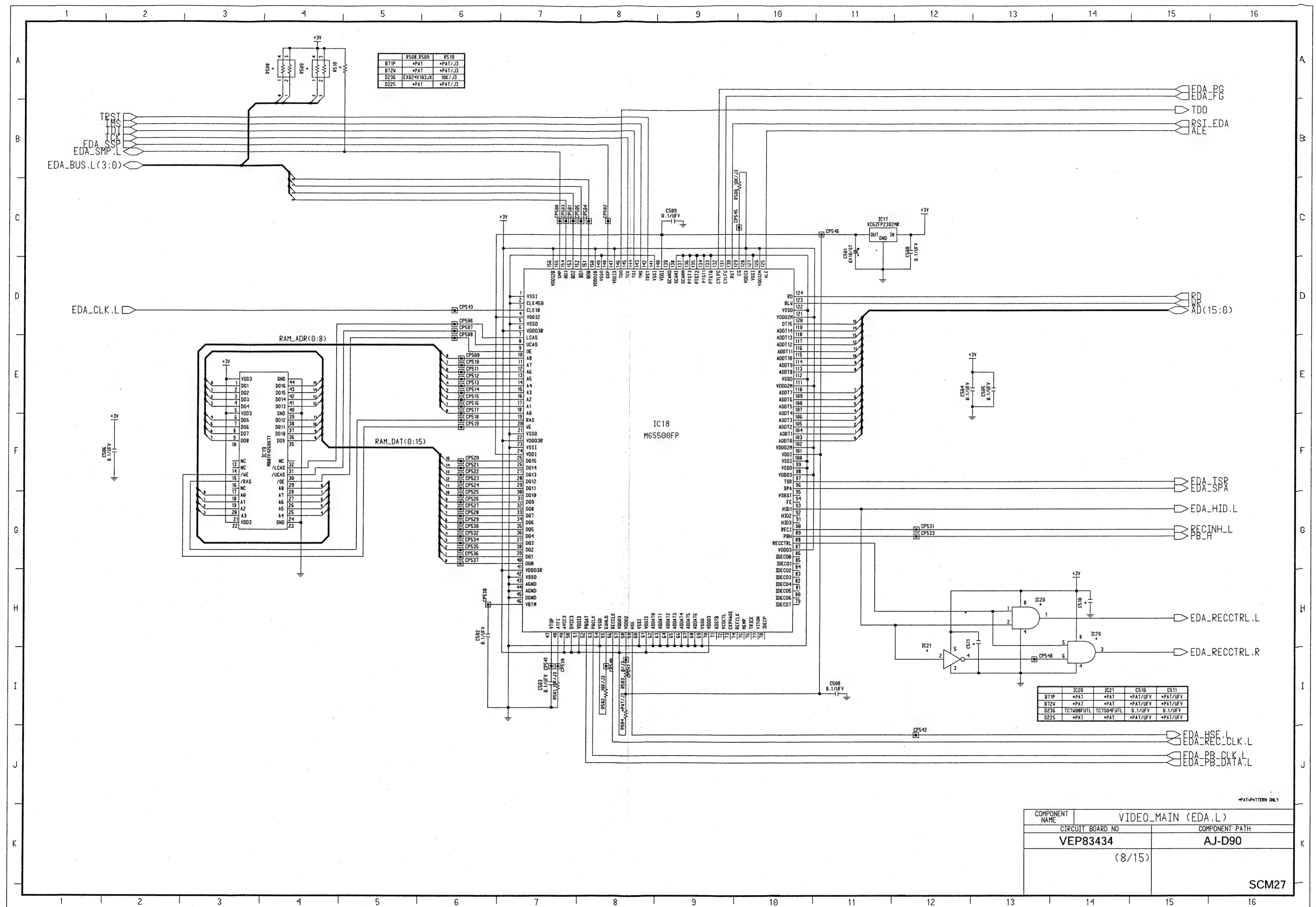
COMPONENT NAME	VIDEO_MAIN (SHUF_MEM)	
CIRCUIT BOARD NO	VEP83434	COMPONENT PATH
	(5/13)	AJ-D90
		SCM24



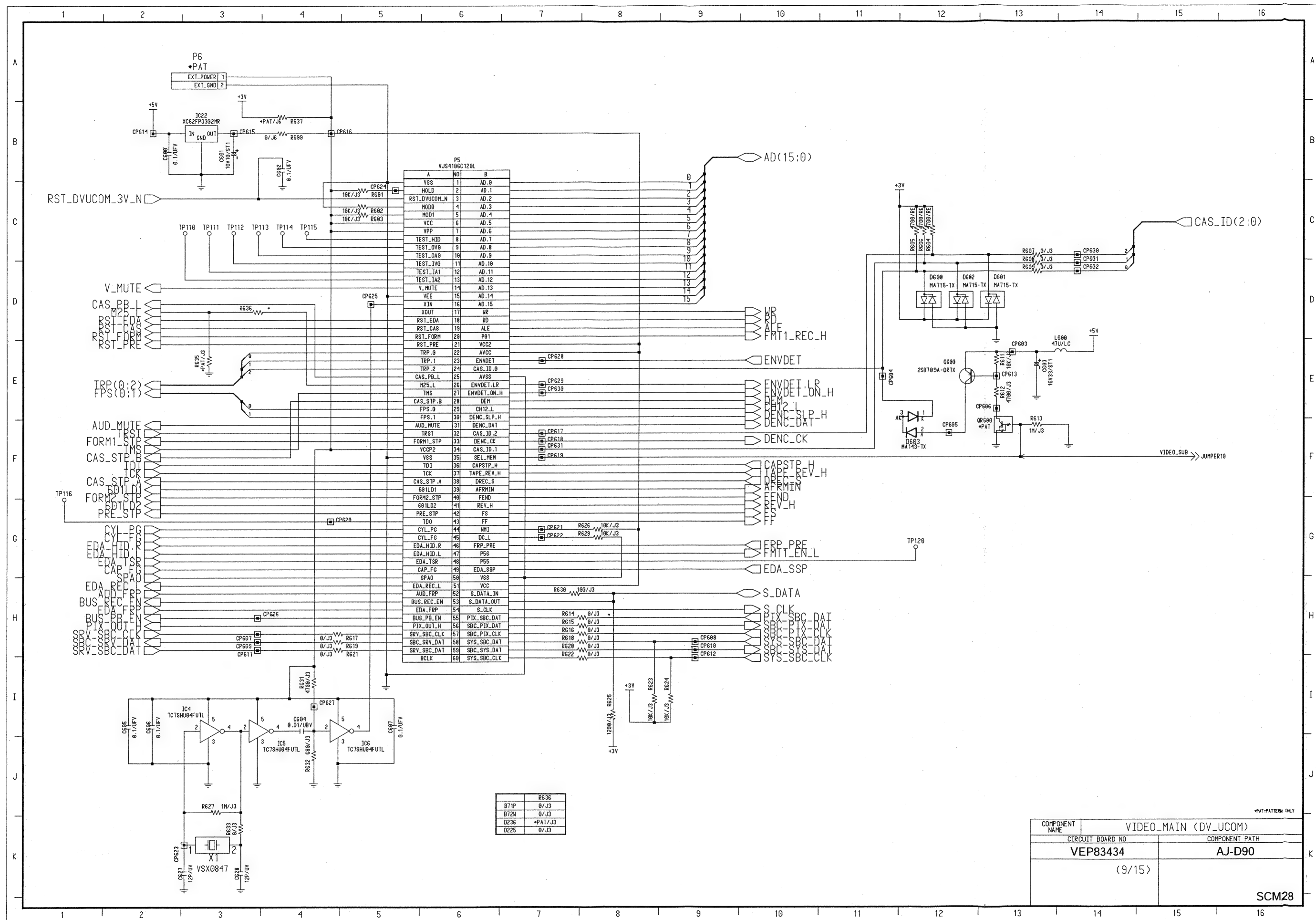
COMPONENT NAME	VIDEO_MAIN (CAS.A)	
CIRCUIT BOARD NO	VEP83434	
COMPONENT PATH	AJ-D90	
	(6/15)	
	SCM25	



COMPONENT NAME		VIDEO_MAIN (SUB_IF)	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP83434		AJ-D90	
(7/15)			
		SCM26	



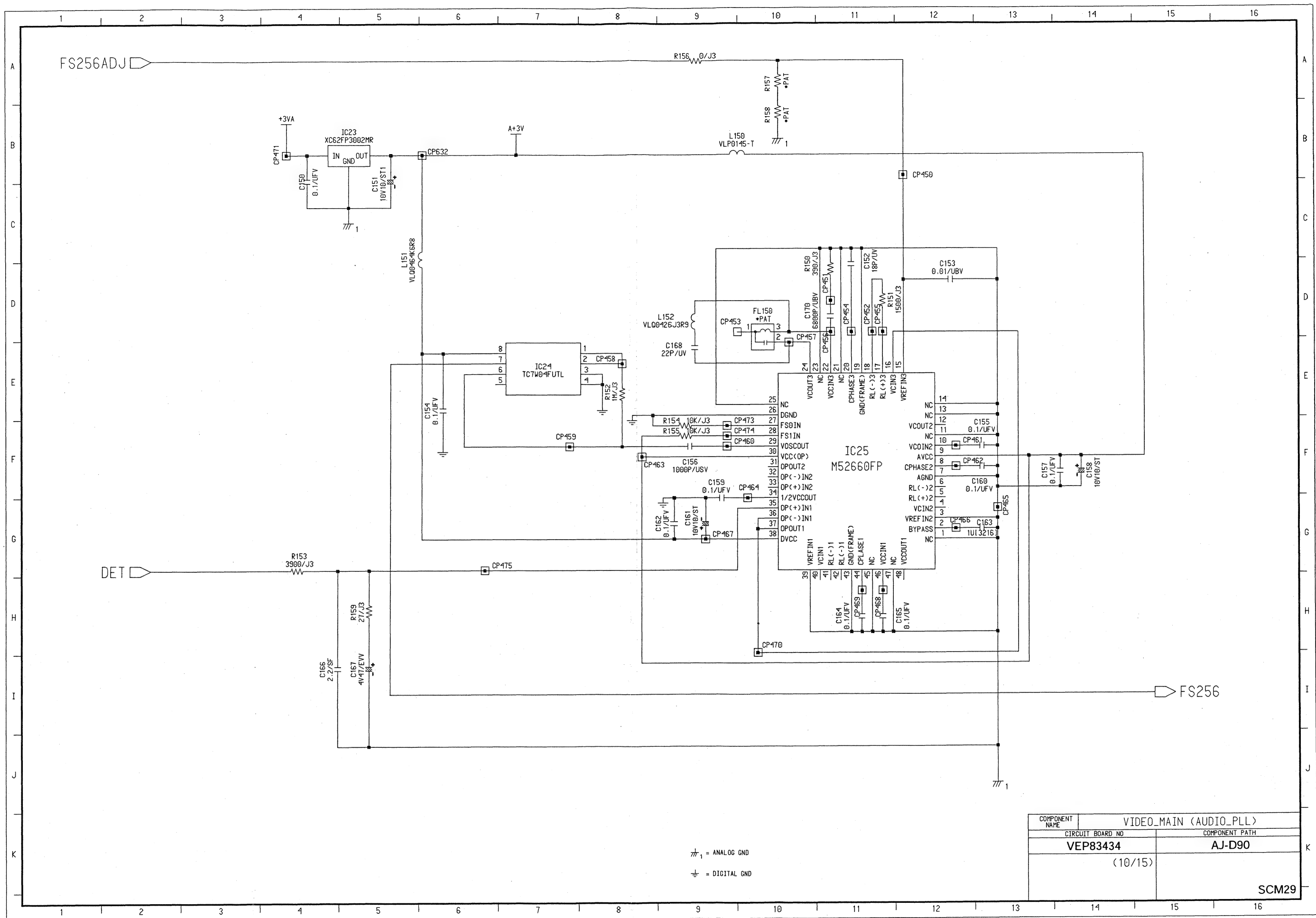
COMPONENT NAME	VIDEO_MAIN (EDA.L)	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP83434	AJ-D90	
(8/15)	SCM27	



	R636
BT1P	0/J3
BT2W	0/J3
D236	*PAT/J3
D225	0/J3

COMPONENT NAME	VIDEO_MAIN (DV_UCOM)
CIRCUIT BOARD NO	COMPONENT PATH
VEP83434	AJ-D90
(9/15)	

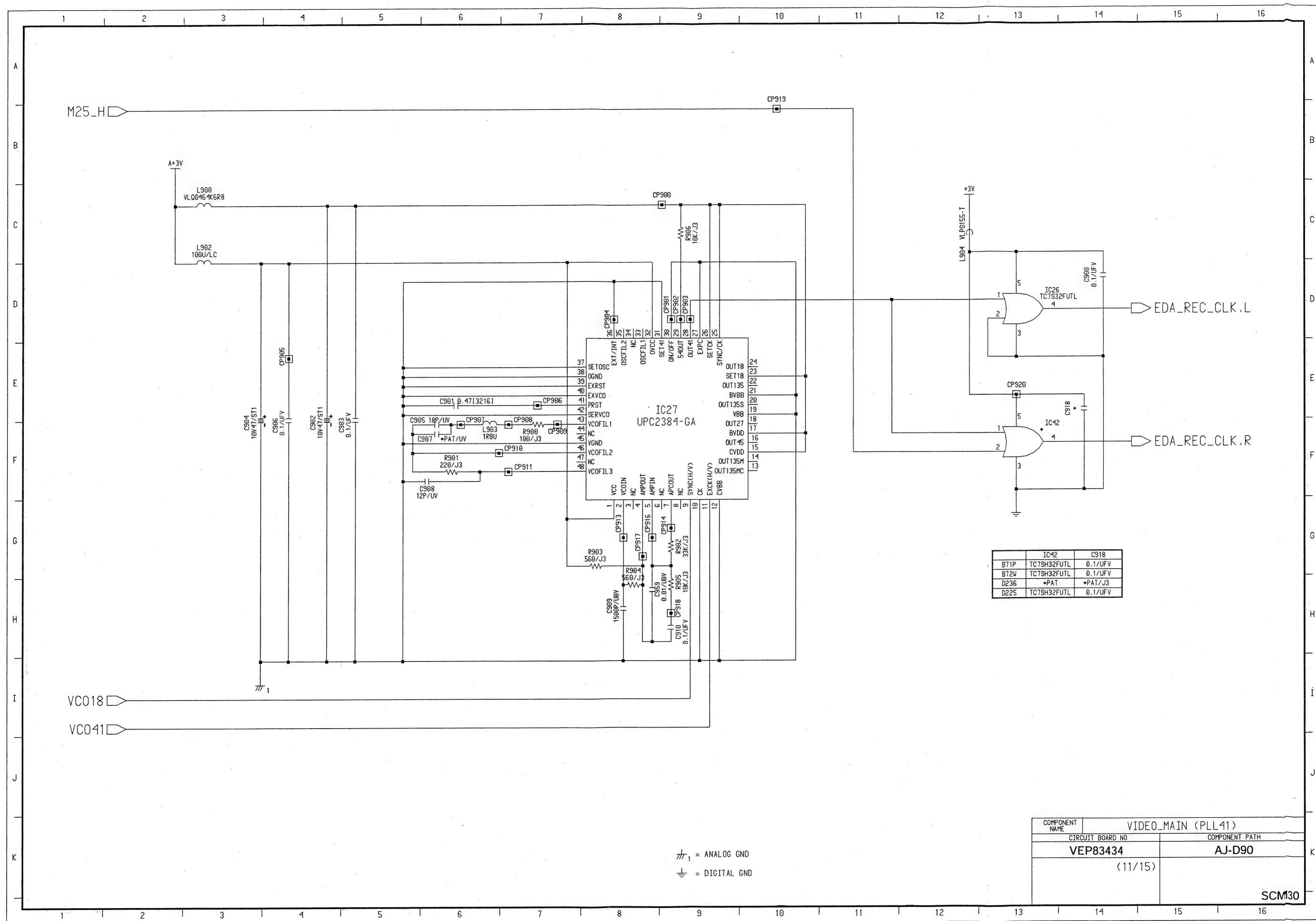
SCM28



∇ = ANALOG GND
 \perp = DIGITAL GND

COMPONENT NAME	VIDEO_MAIN (AUDIO_PLL)	
CIRCUIT BOARD NO	VEP83434	
COMPONENT PATH	AJ-D90	
	(10/15)	

SCM29



∇_1 = ANALOG GND
 ∇ = DIGITAL GND

CLK27

PLL_CLK18

RFTEST_L

M25_L

EDA_REC_L

IF_CLK

DVCS_CLK

CLK18M

PRE_CLK18

M25_H

CAS_CLK.B

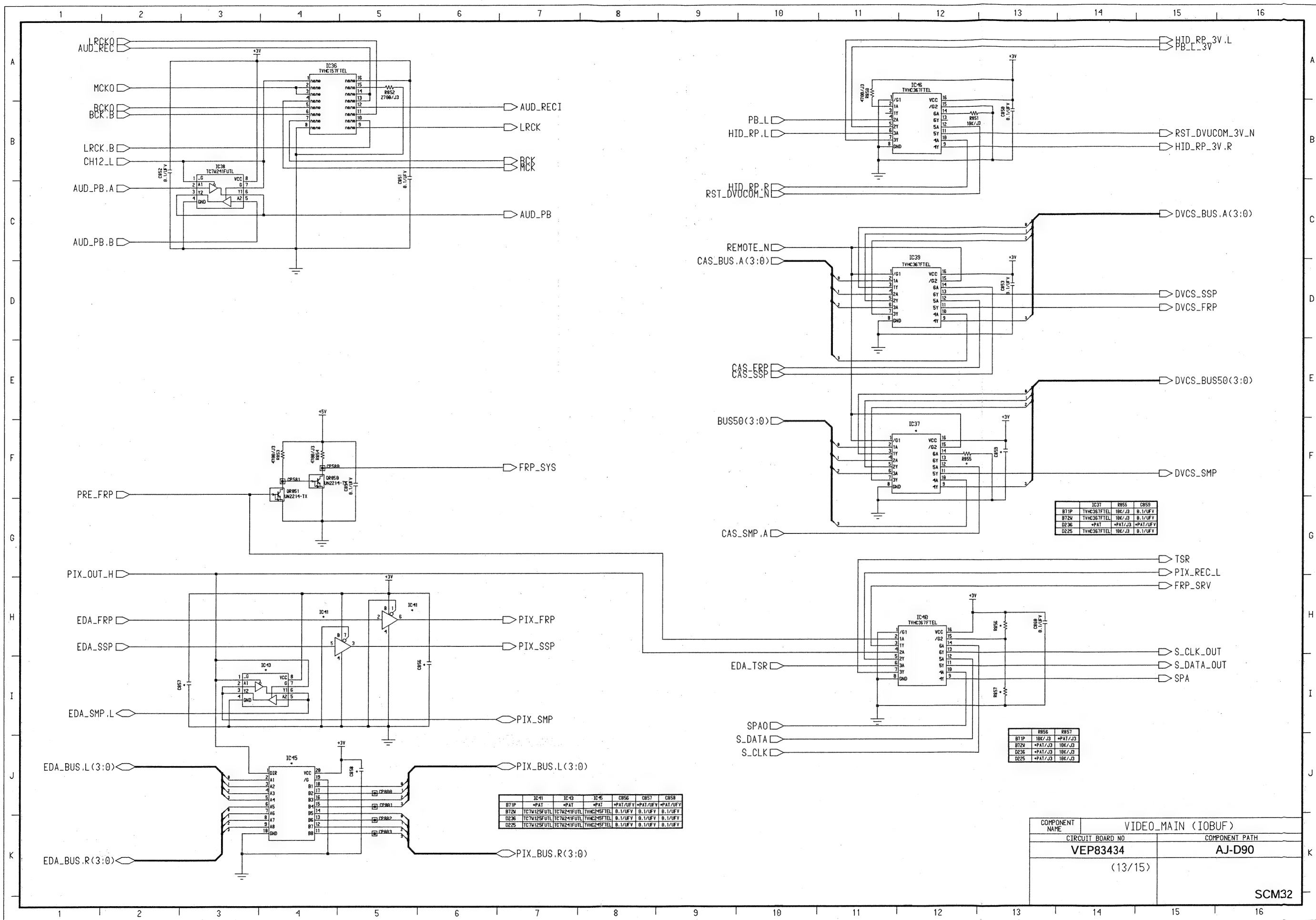
PIX_CLK

EDA_CLK.L

EDA_CLK.R

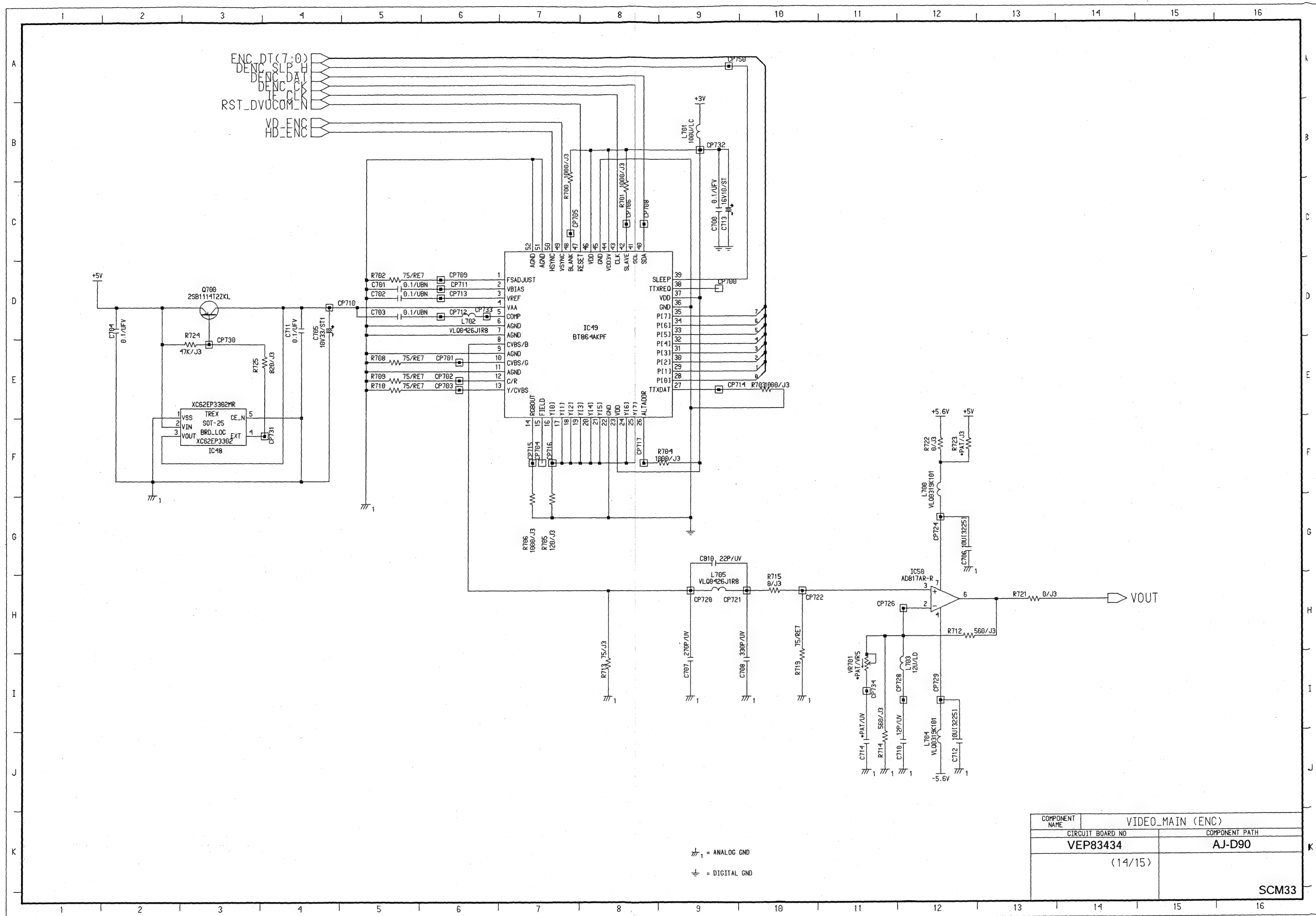
	IC30	IC32	IC34	IC35	C873	C875
B71P	TC7S04FUTL	*PAT	TC7S02FUTL	TC7SH32FUTL	*PAT/UFV	0.1/UFV
B72W	*PAT	TC7SH32FUTL	*PAT	TC7SH32FUTL	0.1/UFV	0.1/UFV
D236	*PAT	TC7SH32FUTL	*PAT	*PAT	0.1/UFV	*PAT/UFV
D225	*PAT	TC7SH32FUTL	*PAT	TC7SH32FUTL	*PAT/UFV	0.1/UFV

COMPONENT NAME	VIDEO_MAIN (CLK_BUF)	
CIRCUIT BOARD NO	VEP83434	COMPONENT PATH
	(12/15)	AJ-D90
SCM31		



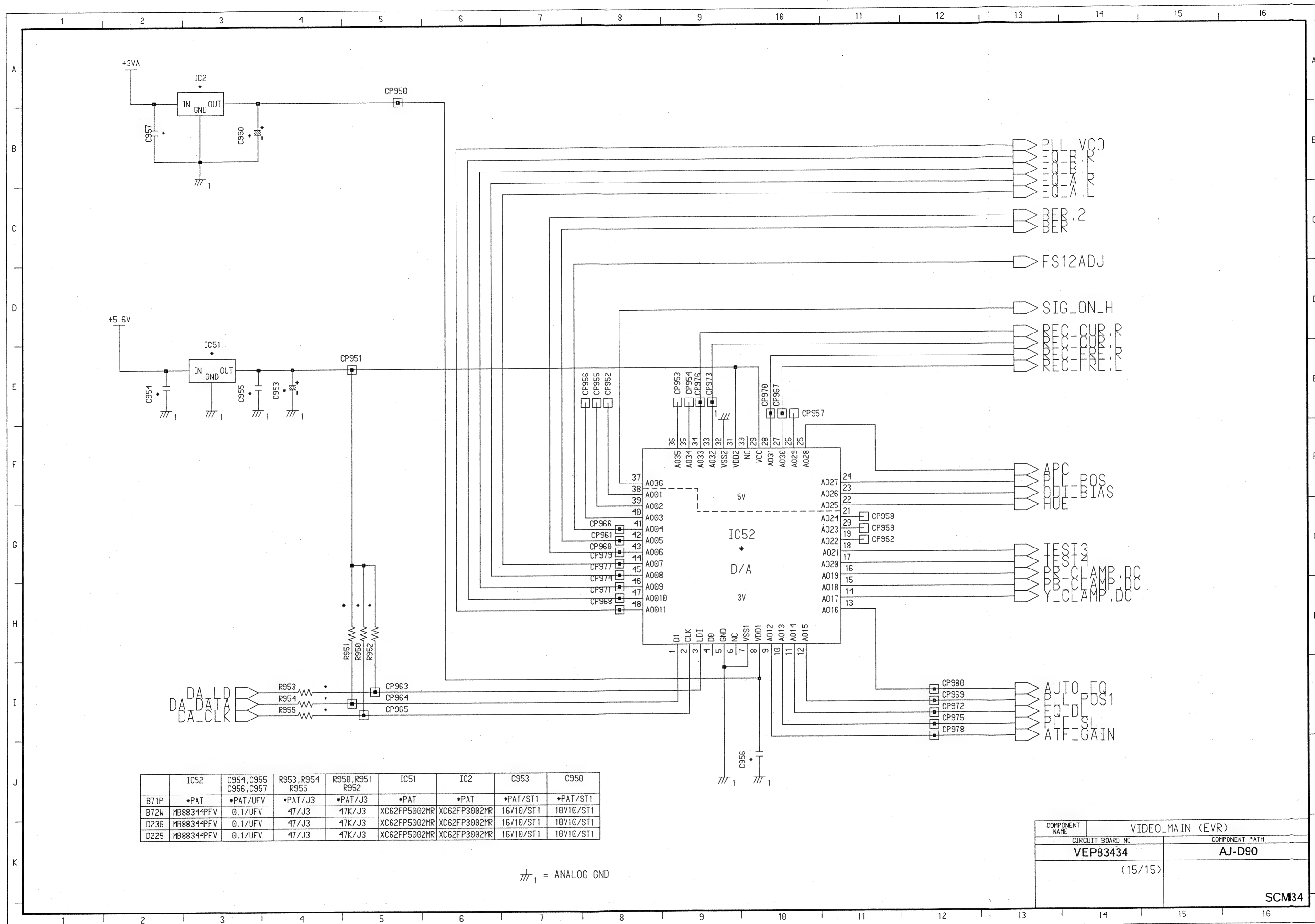
COMPONENT NAME	VIDEO_MAIN (IOBUF)
CIRCUIT BOARD NO	VEP83434
COMPONENT PATH	AJ-D90
	(13/15)

SCM32



COMPONENT NAME	VIDEO_MAIN (ENC)	
CIRCUIT BOARD NO	VEP83434	
COMPONENT PATH	AJ-D90	
	(14/15)	

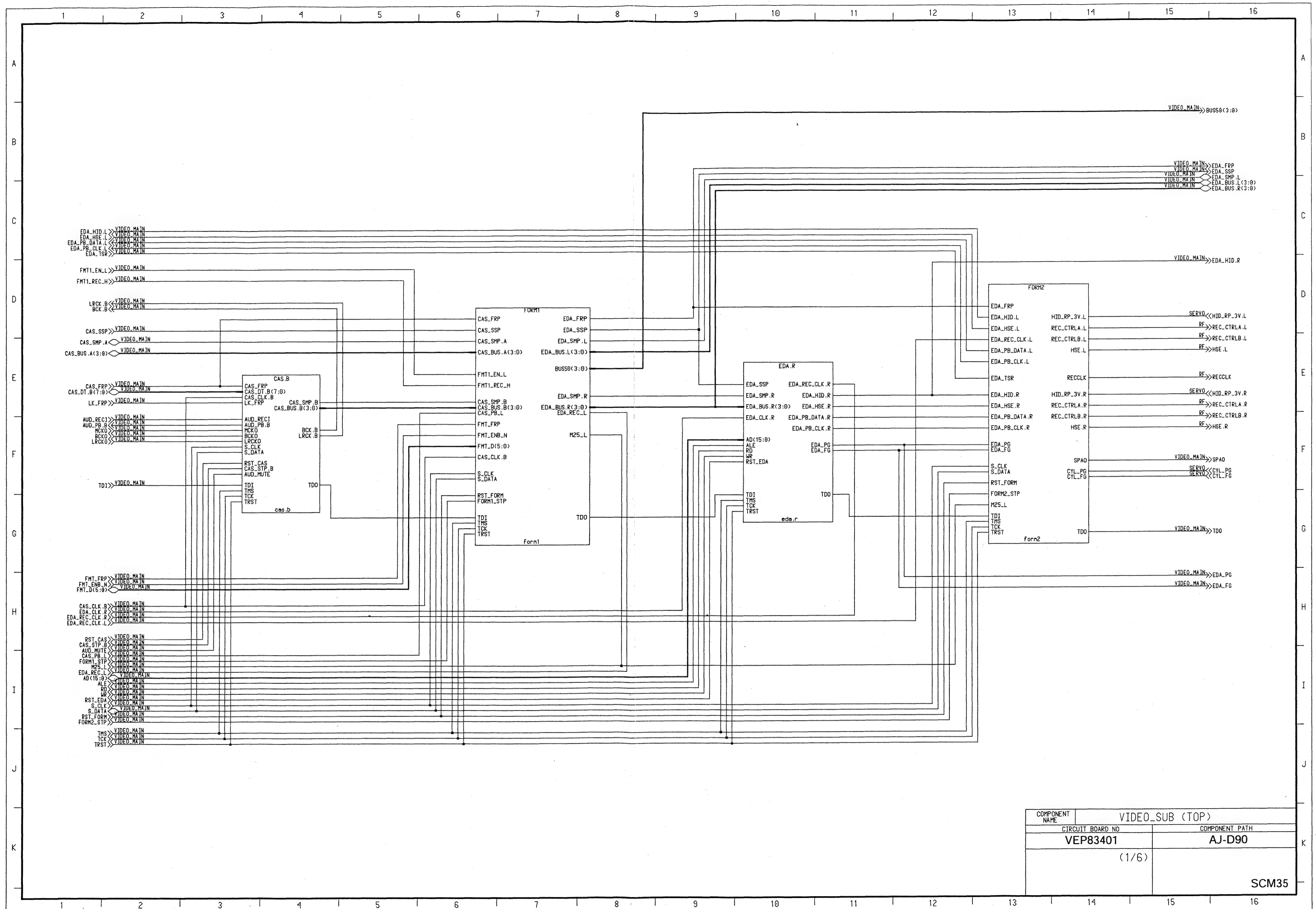
SCM33

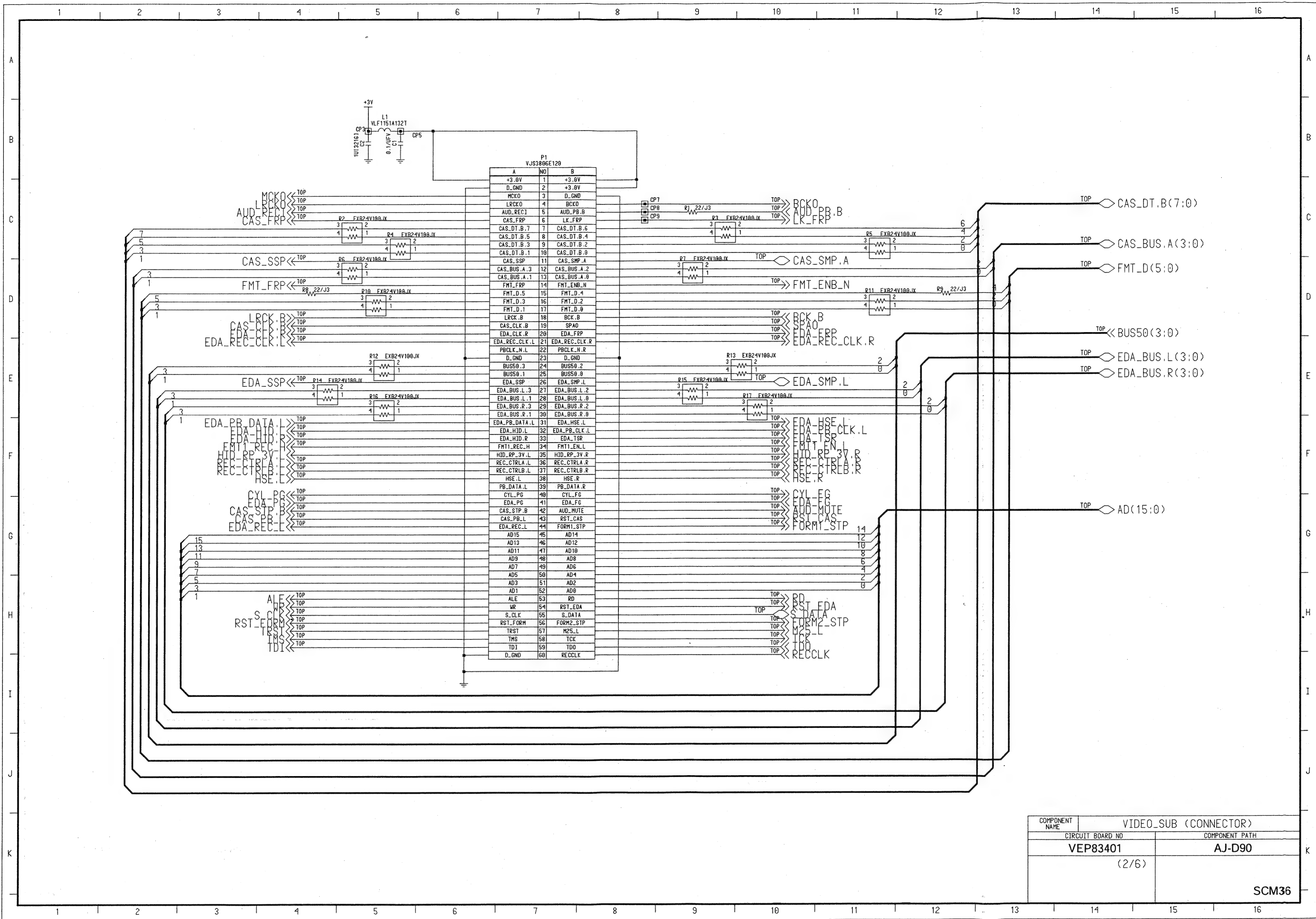


	IC52	C954, C955 C956, C957	R953, R954 R955	R950, R951 R952	IC51	IC2	C953	C950
B71P	*PAT	*PAT/UFV	*PAT/J3	*PAT/J3	*PAT	*PAT	*PAT/ST1	*PAT/ST1
B72W	MB88344PFV	0.1/UFV	47/J3	47K/J3	XC62F5P002MR	XC62F3P002MR	16V10/ST1	10V10/ST1
D236	MB88344PFV	0.1/UFV	47/J3	47K/J3	XC62F5P002MR	XC62F3P002MR	16V10/ST1	10V10/ST1
D225	MB88344PFV	0.1/UFV	47/J3	47K/J3	XC62F5P002MR	XC62F3P002MR	16V10/ST1	10V10/ST1

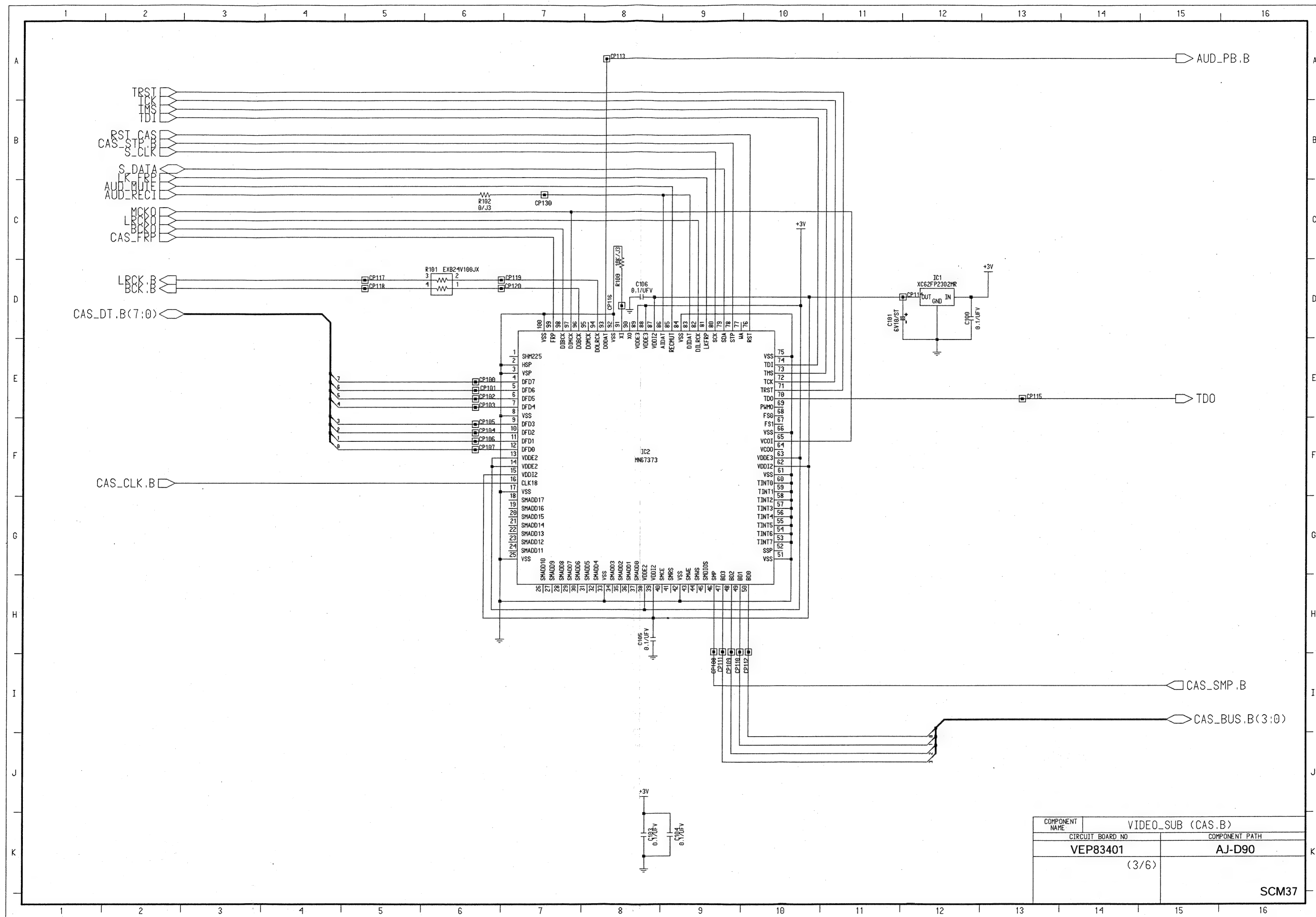
$\pi\pi_1 = \text{ANALOG GND}$

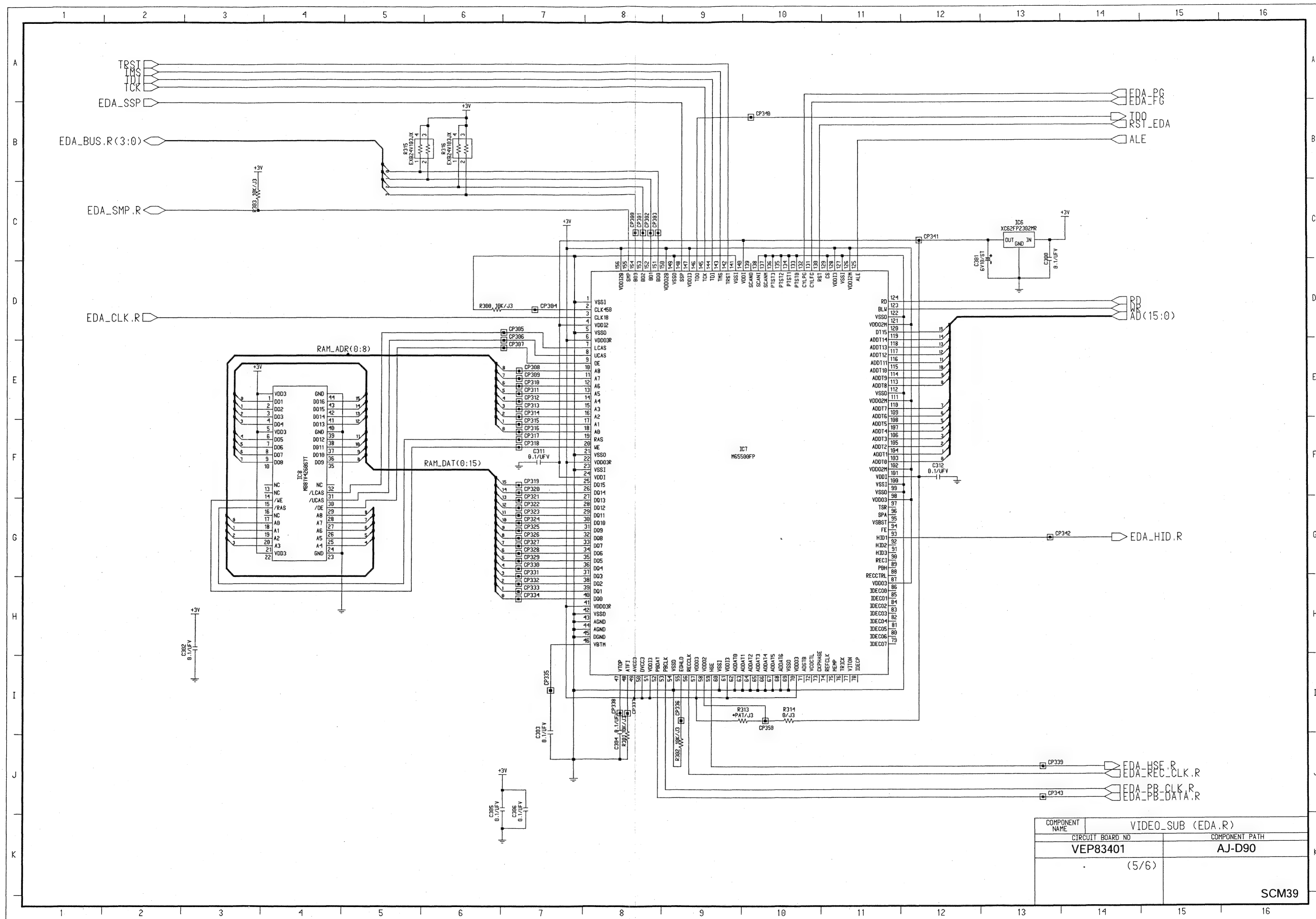
COMPONENT NAME	VIDEO_MAIN (EVR)	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP83434	AJ-D90	
(15/15)	SCM34	

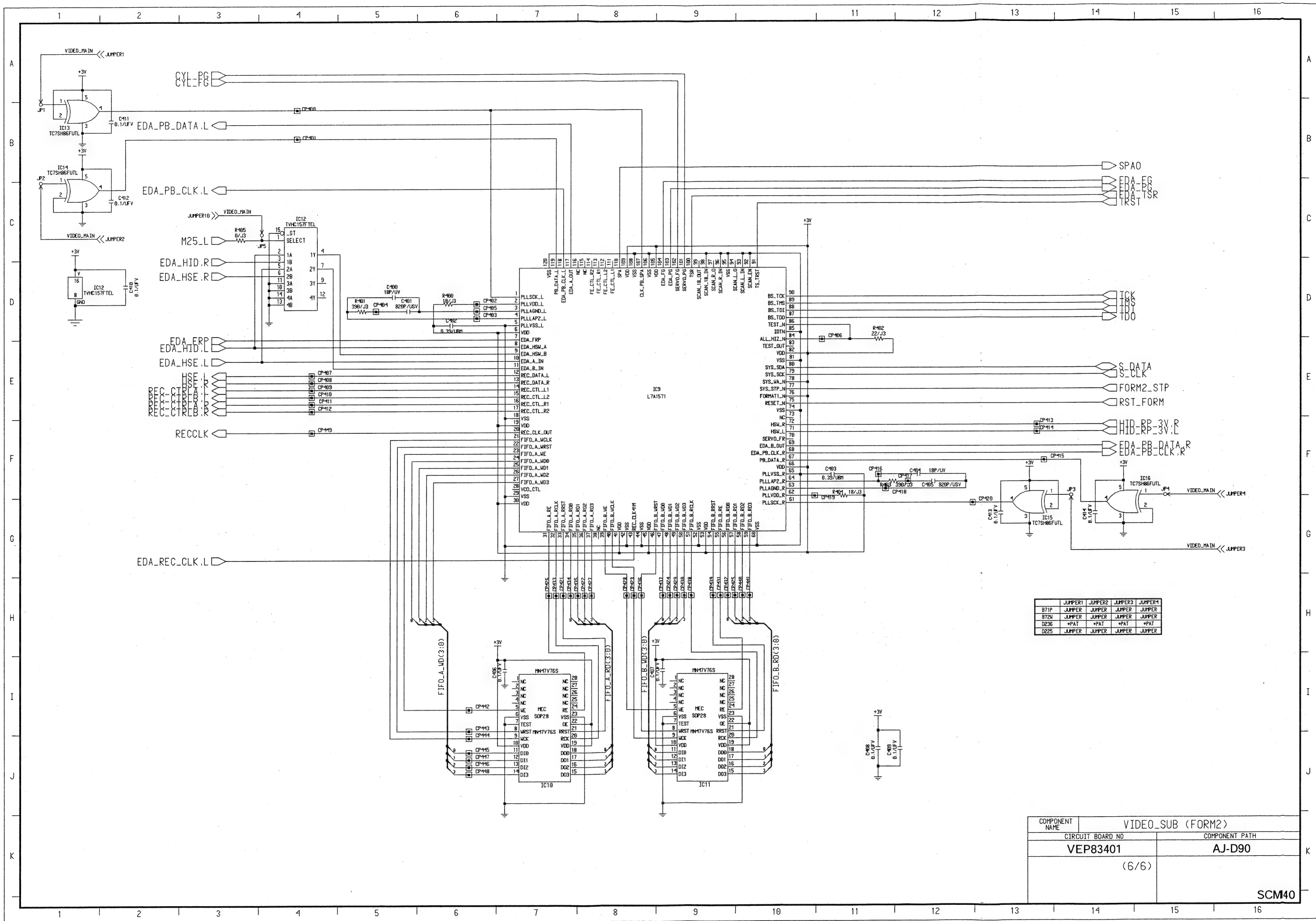




COMPONENT NAME	VIDEO_SUB (CONNECTOR)	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP83401	AJ-D90	
(2/6)		
	SCM36	



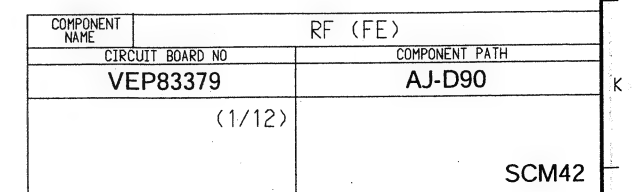


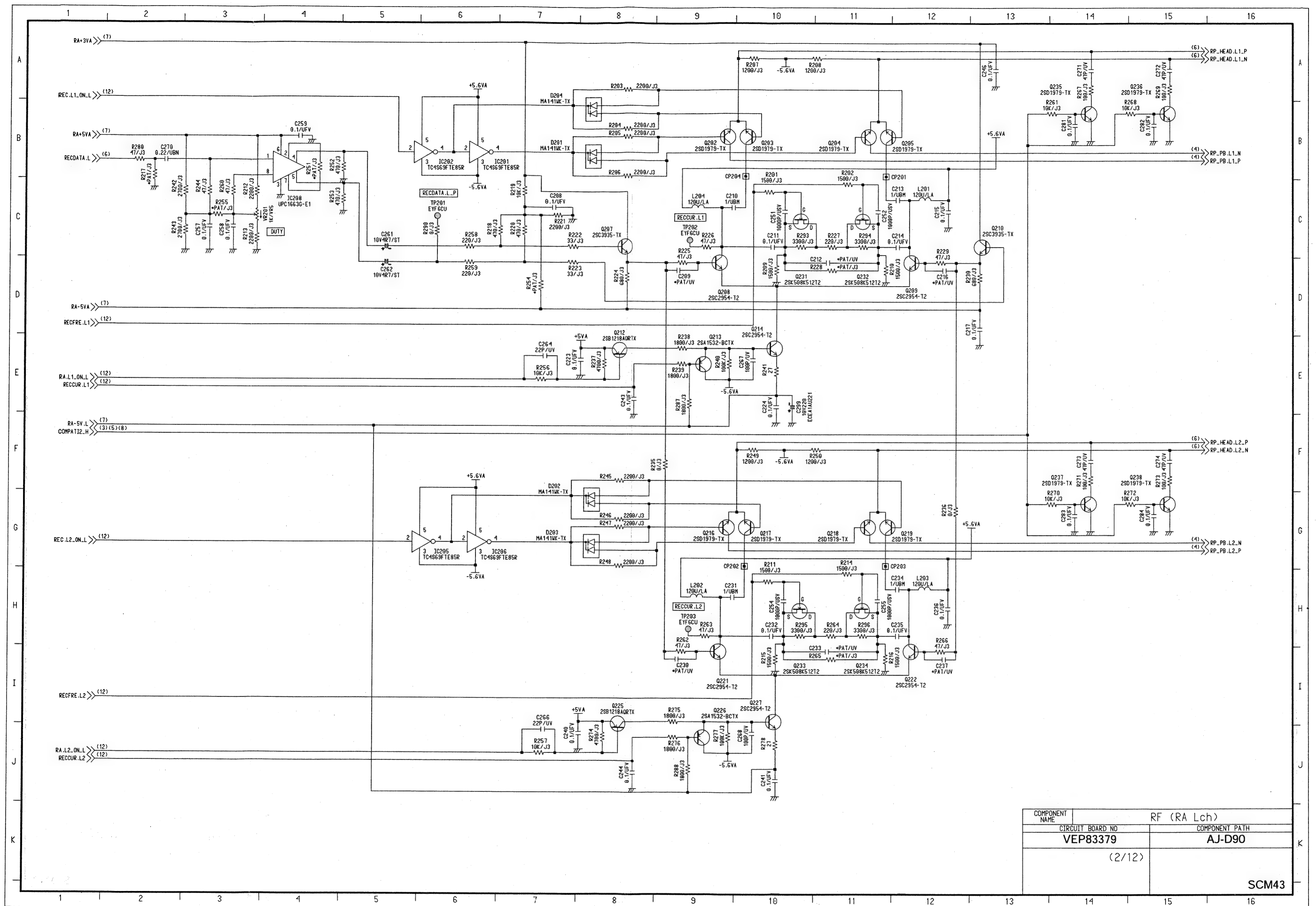


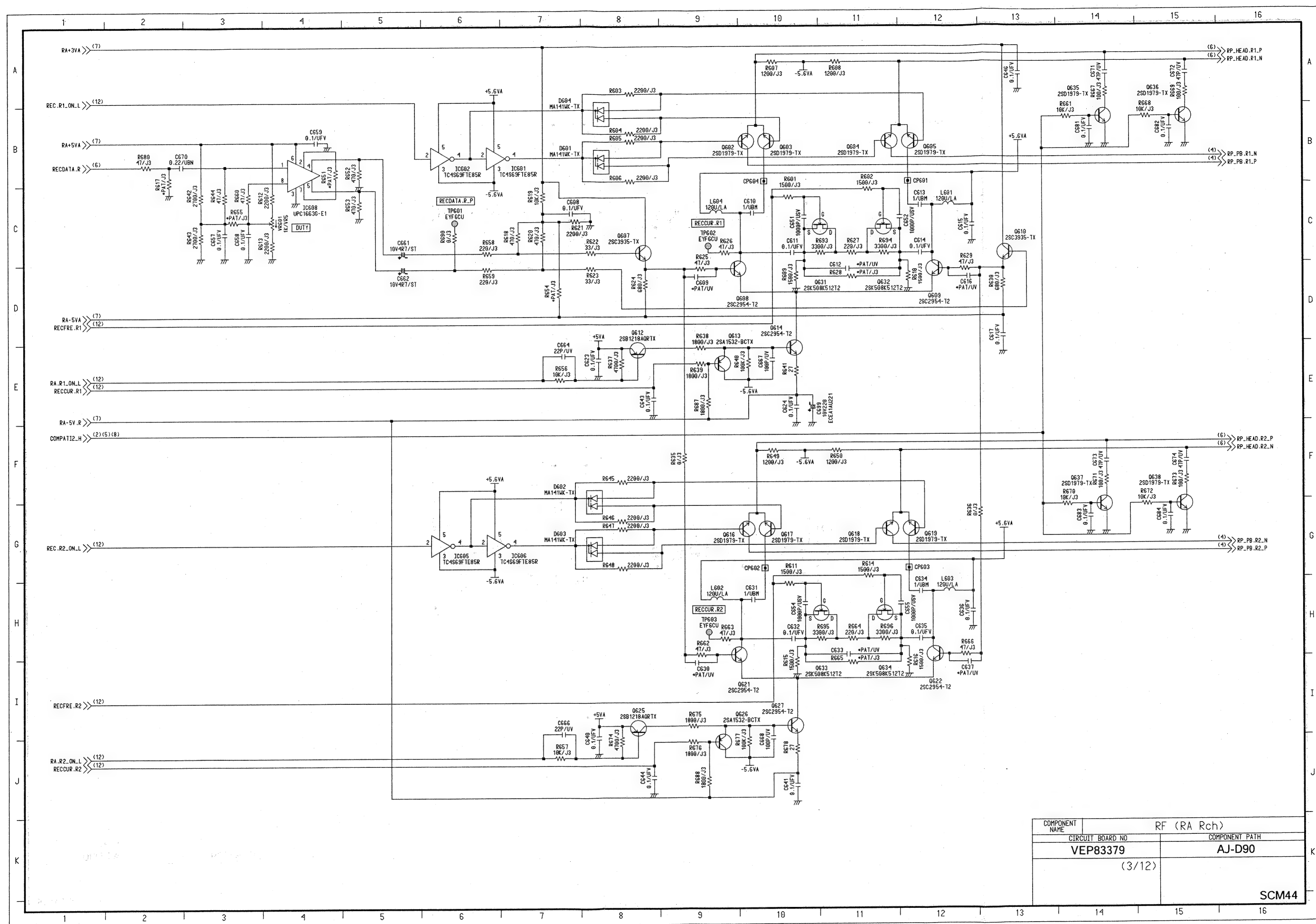
J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14	J15	J16	J17	J18	J19	J20	J21	J22	J23	J24	J25	J26	J27	J28	J29	J30	J31	J32	J33	J34	J35	J36	J37	J38	J39	J40	J41	J42	J43	J44	J45	J46	J47	J48	J49	J50	J51	J52	J53	J54	J55	J56	J57	J58	J59	J60	J61	J62	J63	J64	J65	J66	J67	J68	J69	J70	J71	J72	J73	J74	J75	J76	J77	J78	J79	J80	J81	J82	J83	J84	J85	J86	J87	J88	J89	J90	J91	J92	J93	J94	J95	J96	J97	J98	J99	J100
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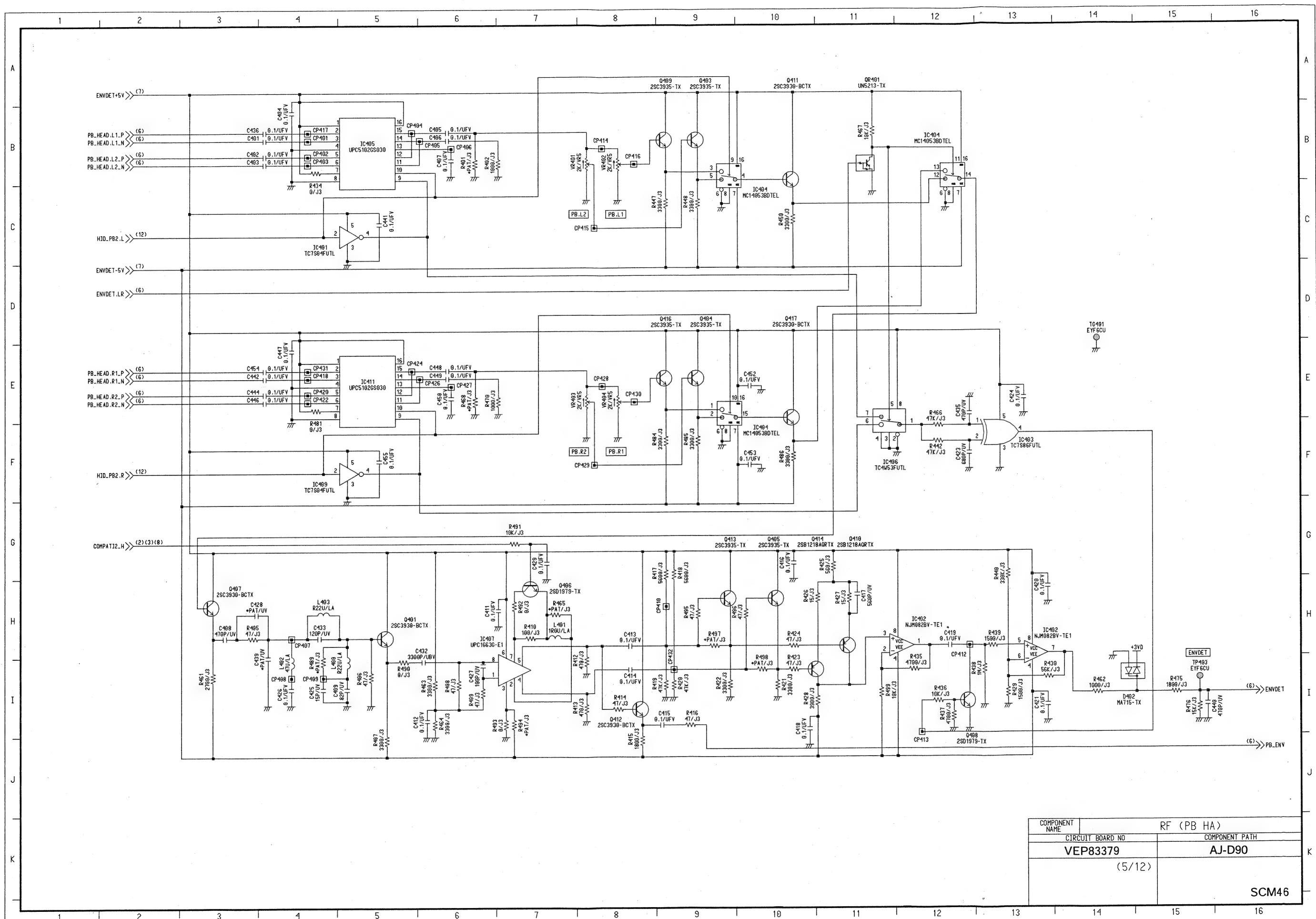
COMPONENT NAME	VIDEO_SUB (FORM2)
CIRCUIT BOARD NO	VEP83401
COMPONENT PATH	AJ-D90
	(6/6)

SCM40

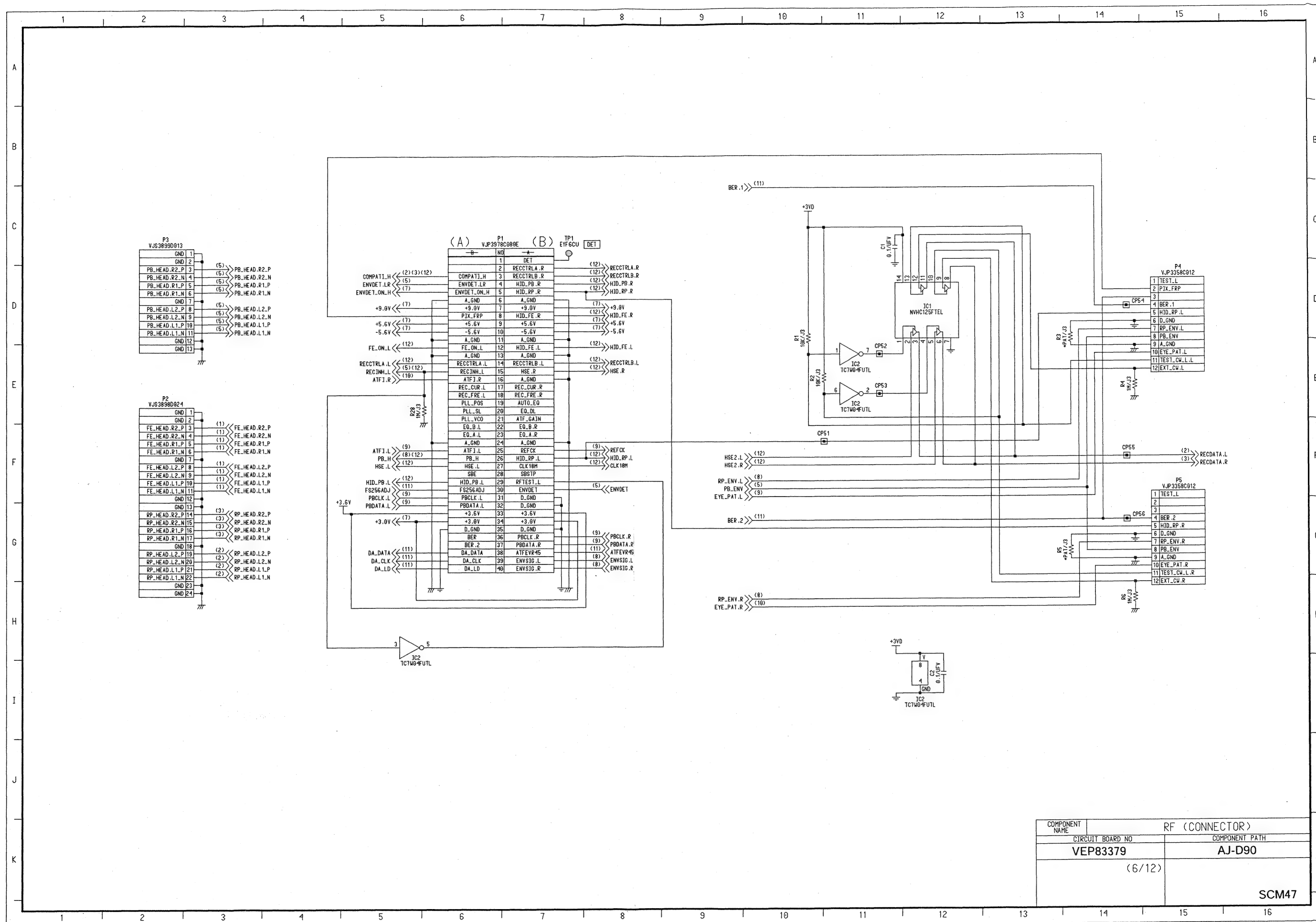


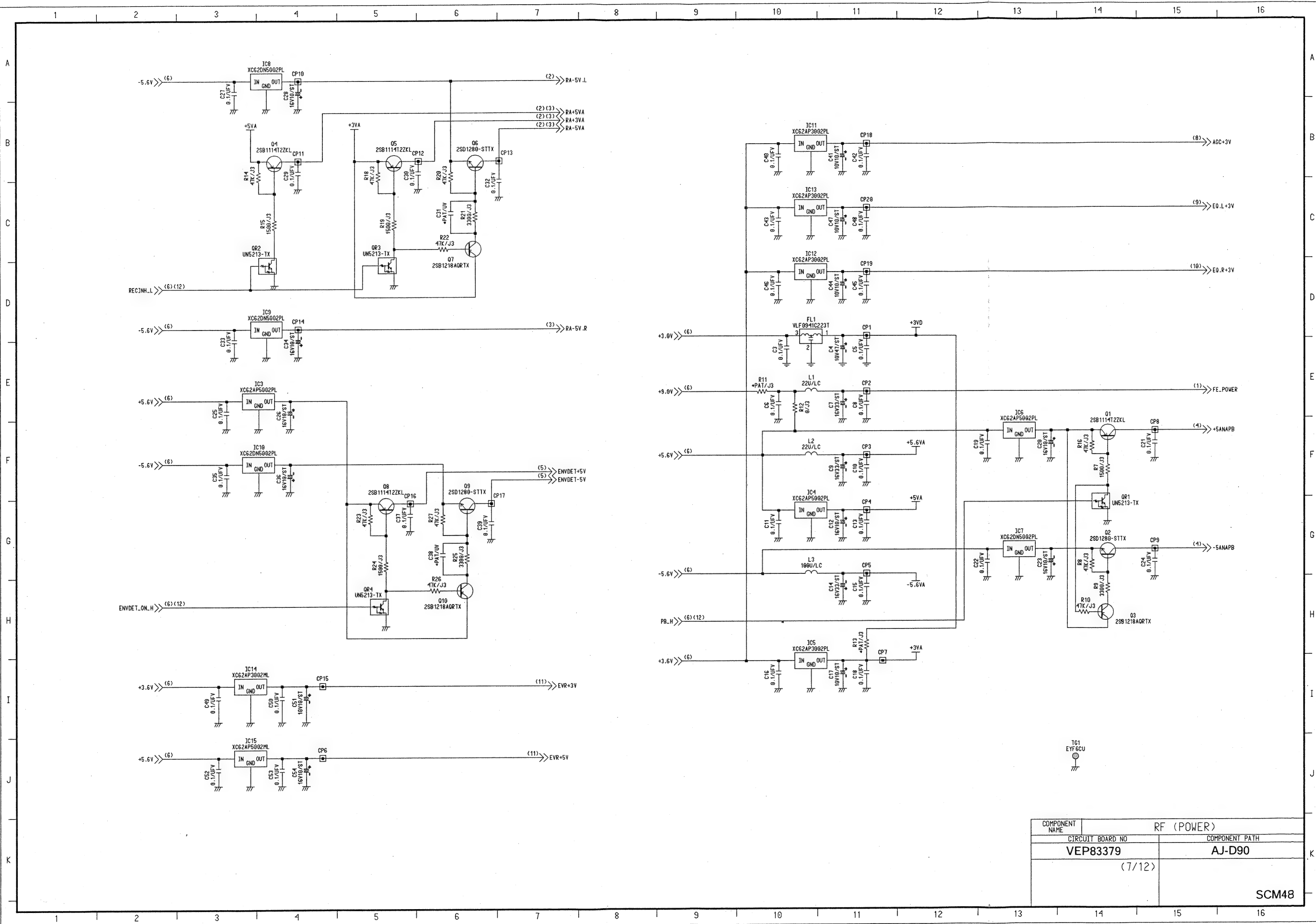


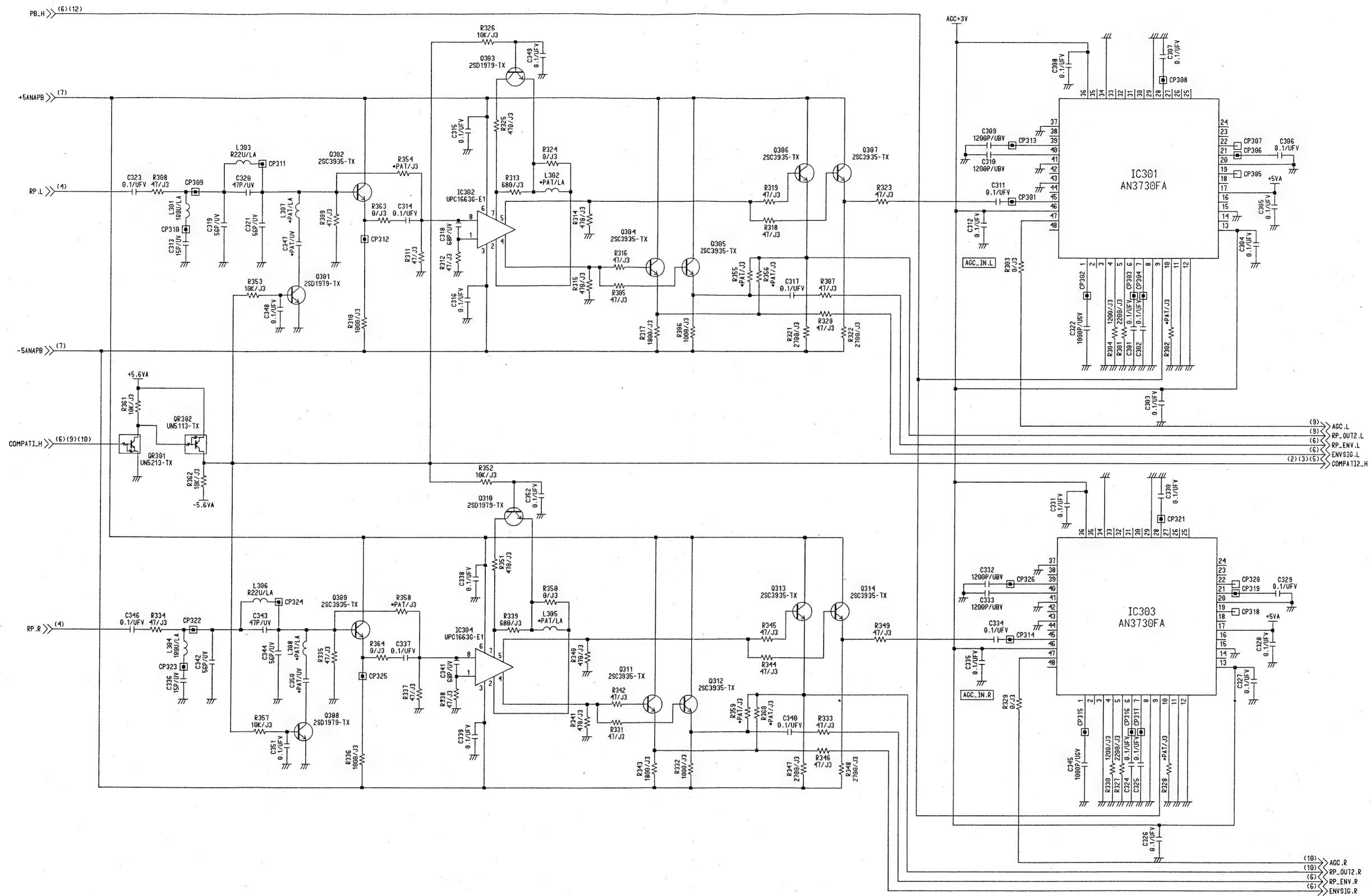




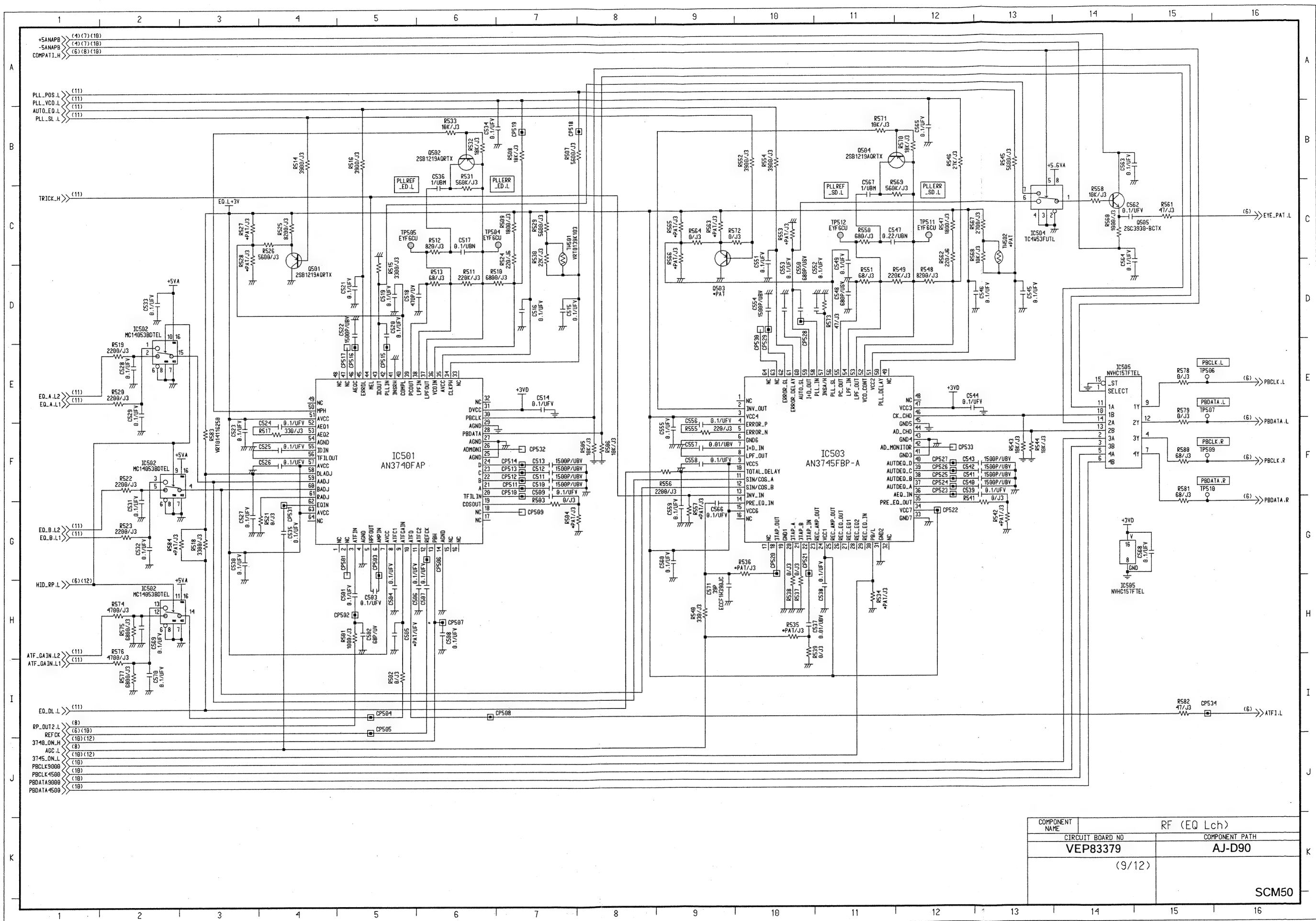
COMPONENT NAME	RF (PB HA)
CIRCUIT BOARD NO	COMPONENT PATH
VEP83379	AJ-D90
(5/12)	
SCM46	

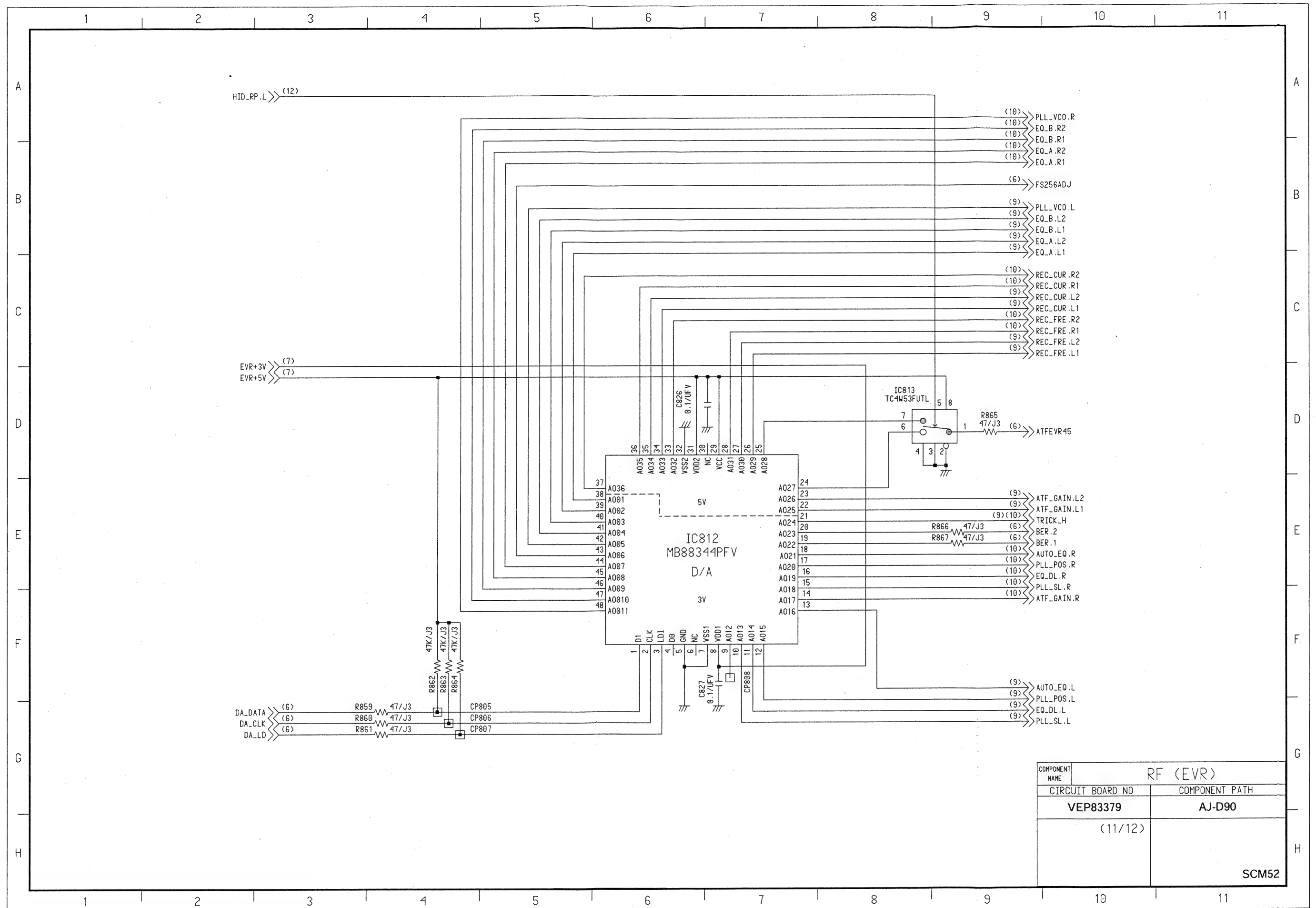


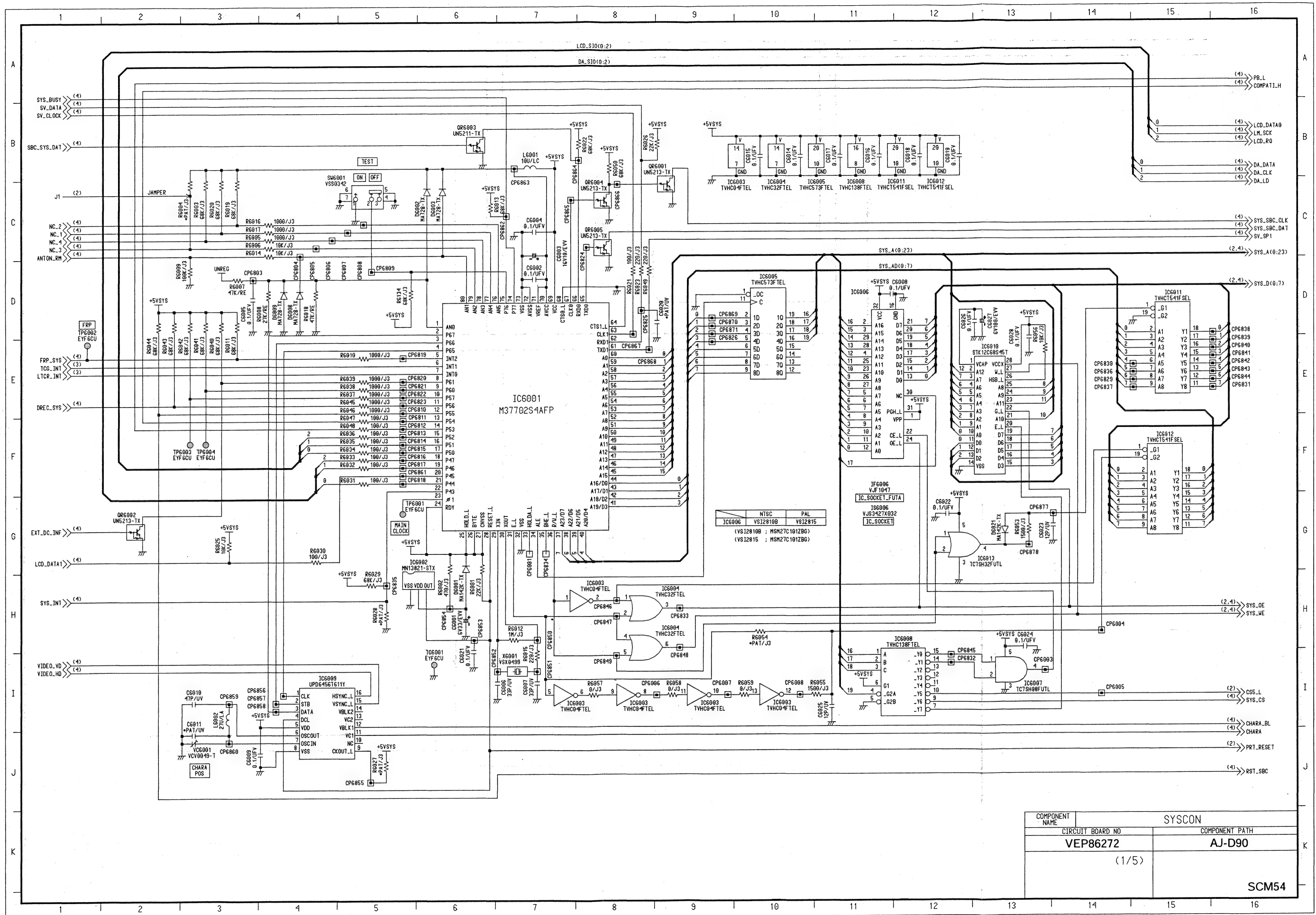




COMPONENT NAME	RF (AGC)
CIRCUIT BOARD NO	COMPONENT PATH
VEP83379	AJ-D90
(8/12)	
SCM49	







SYS_A(0:15) (1)
SYS_D(0:7) (1)
SYS_WE (1)
SYS_OE (1)
CS5_L (1)
PRT_RESET (1)

POW_SAVE (4)
WIDE (4)
SPEAR1 (4)

EFP (3)

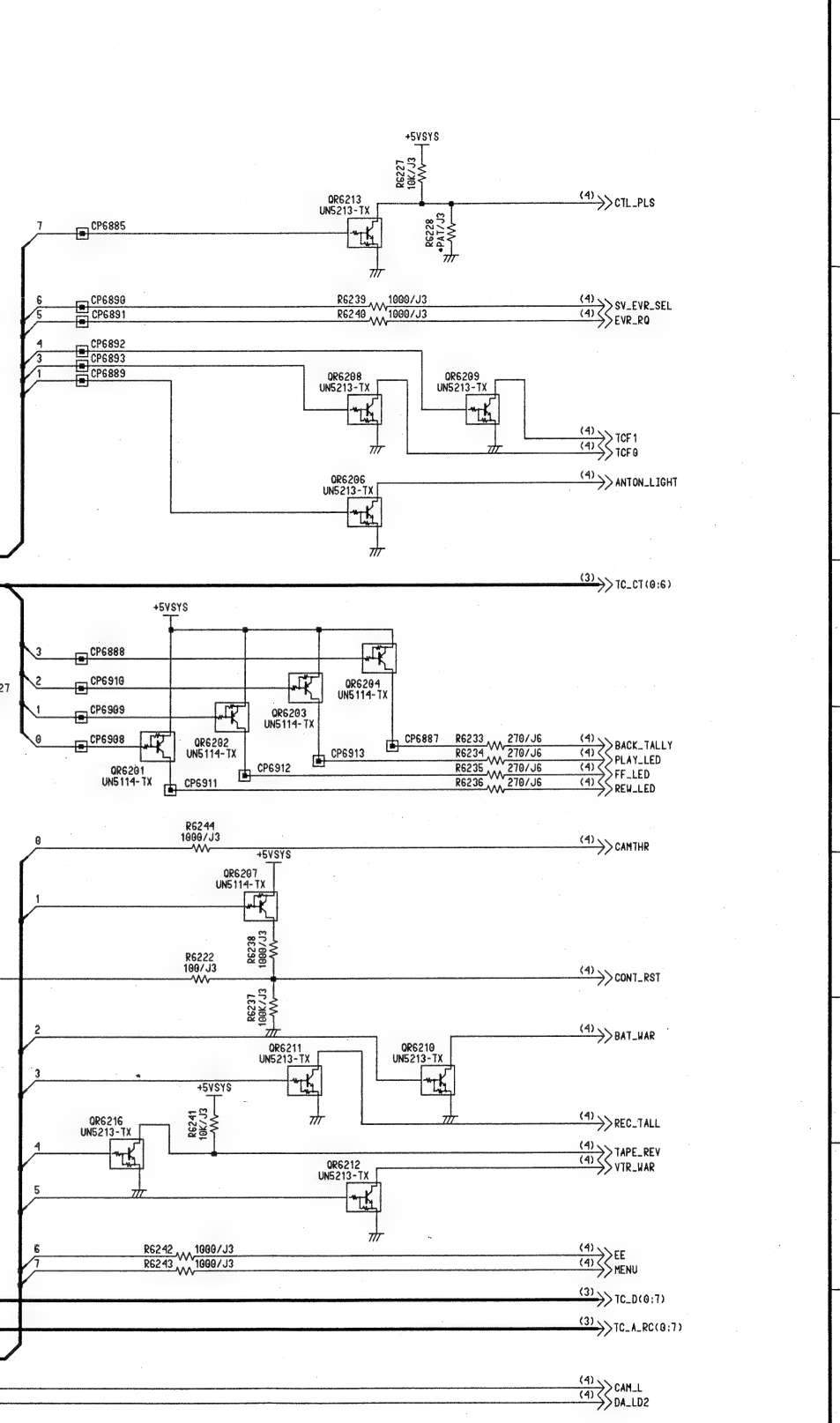
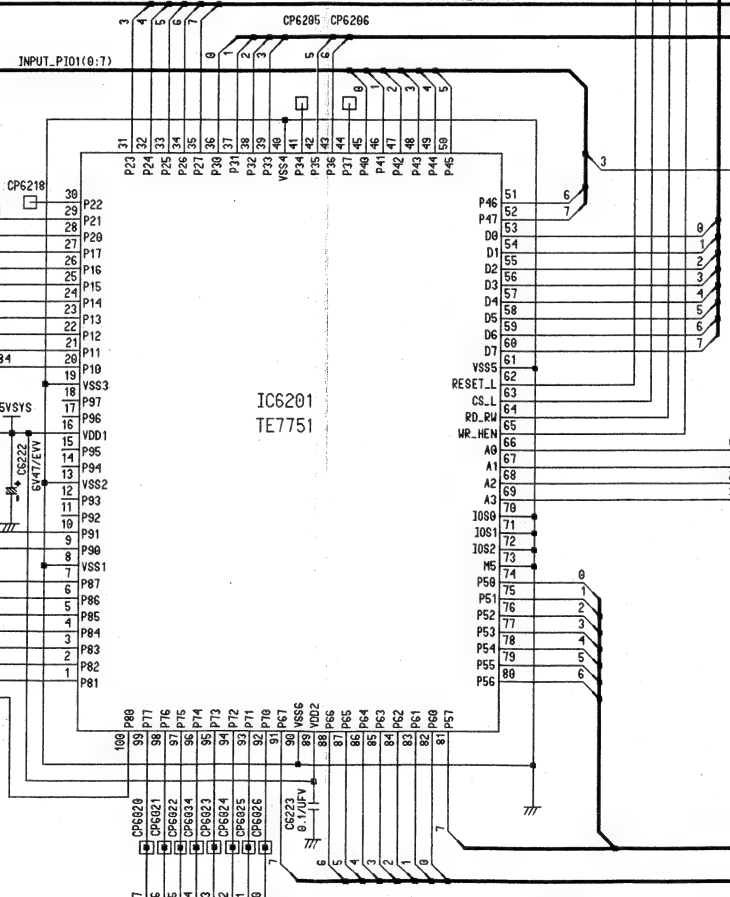
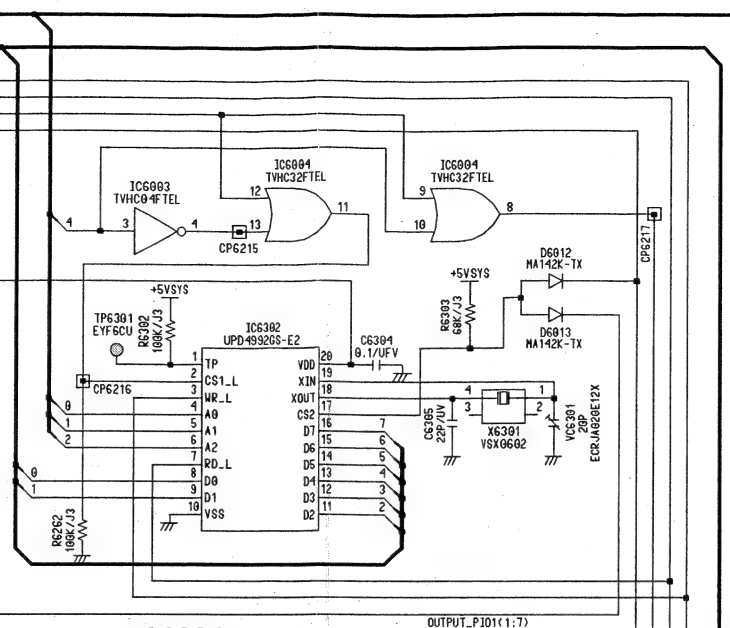
EVR_TEST (4)

START_SW (4)
RET_SW (4)
EJECT_SW (4)
STOP_SW (4)
PLAY_SW (4)
FF_SW (4)
REW_SW (4)

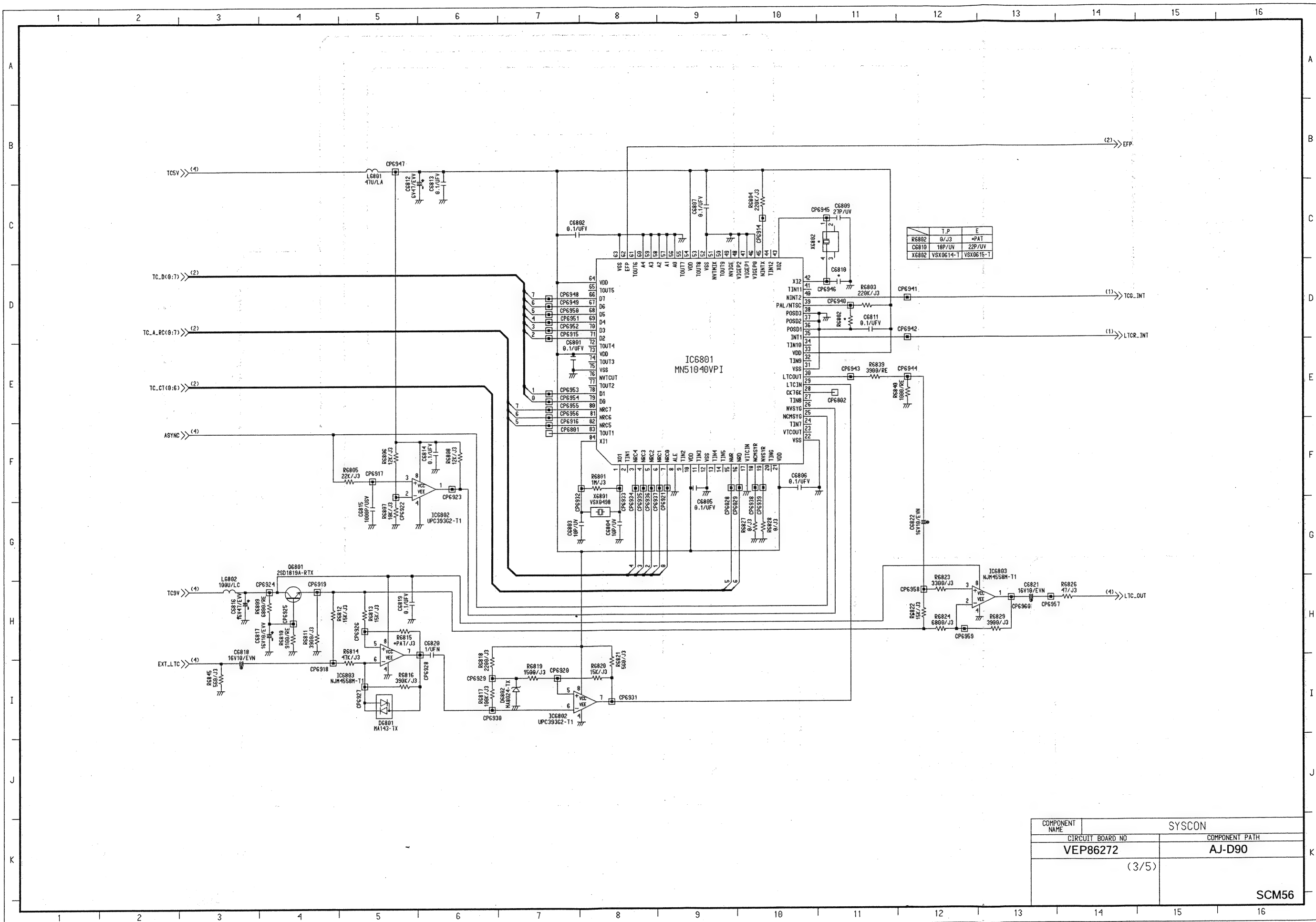
BATT (4)

NC_87 (4)
NC_86 (4)
NC_85 (4)
NC_84 (4)
NC_83 (4)
NC_82 (4)
NC_81 (4)
NC_80 (4)

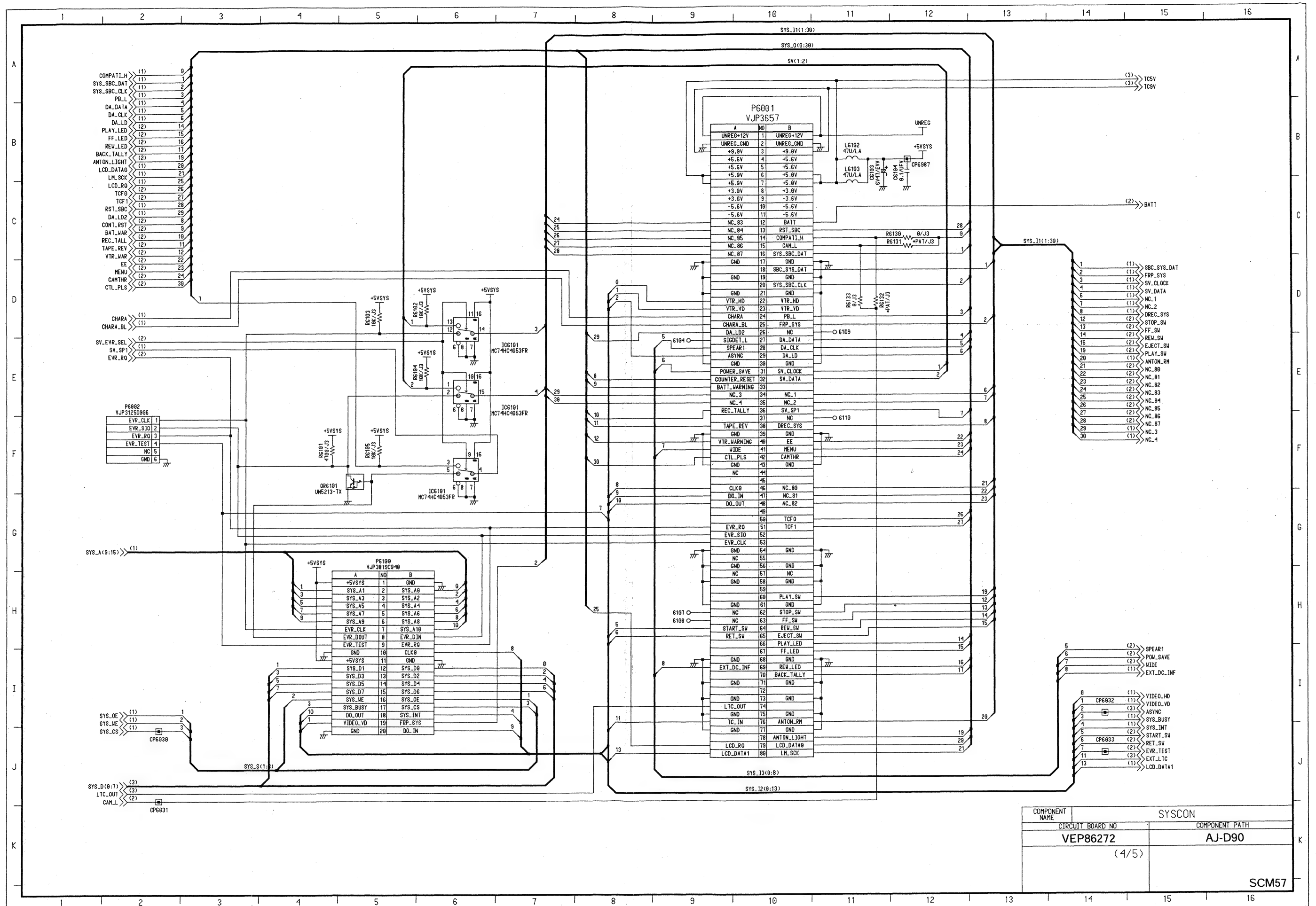
	T	P	E
R6245	0/J3	+PAT	+PAT
R6246	+PAT	+PAT	0/J3



COMPONENT NAME	SYSCON
CIRCUIT BOARD NO	COMPONENT PATH
VEP86272	AJ-D90
(2/5)	
	SCM55

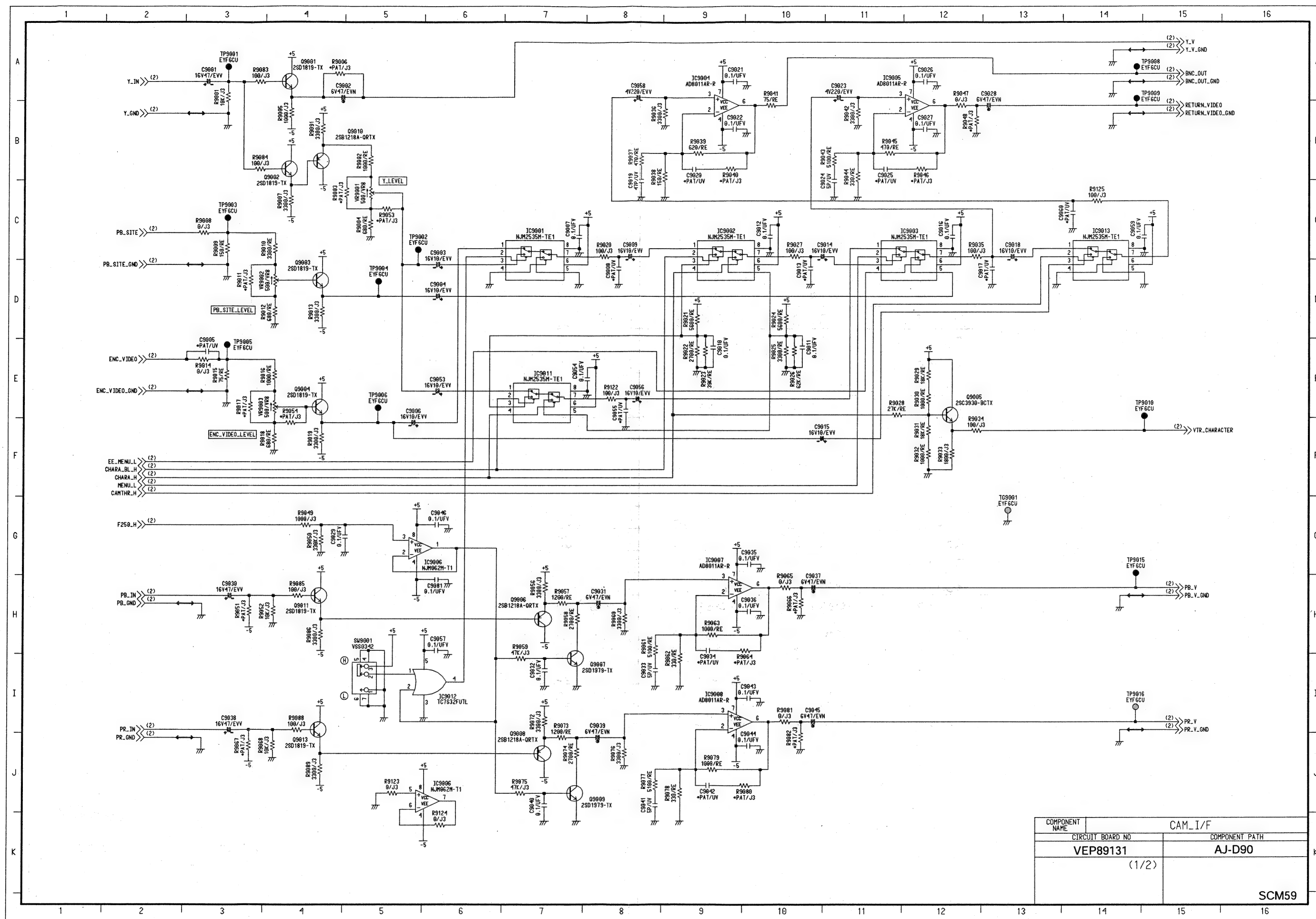


COMPONENT NAME	SYSCON	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP86272	AJ-D90	
(3/5)	SCM56	

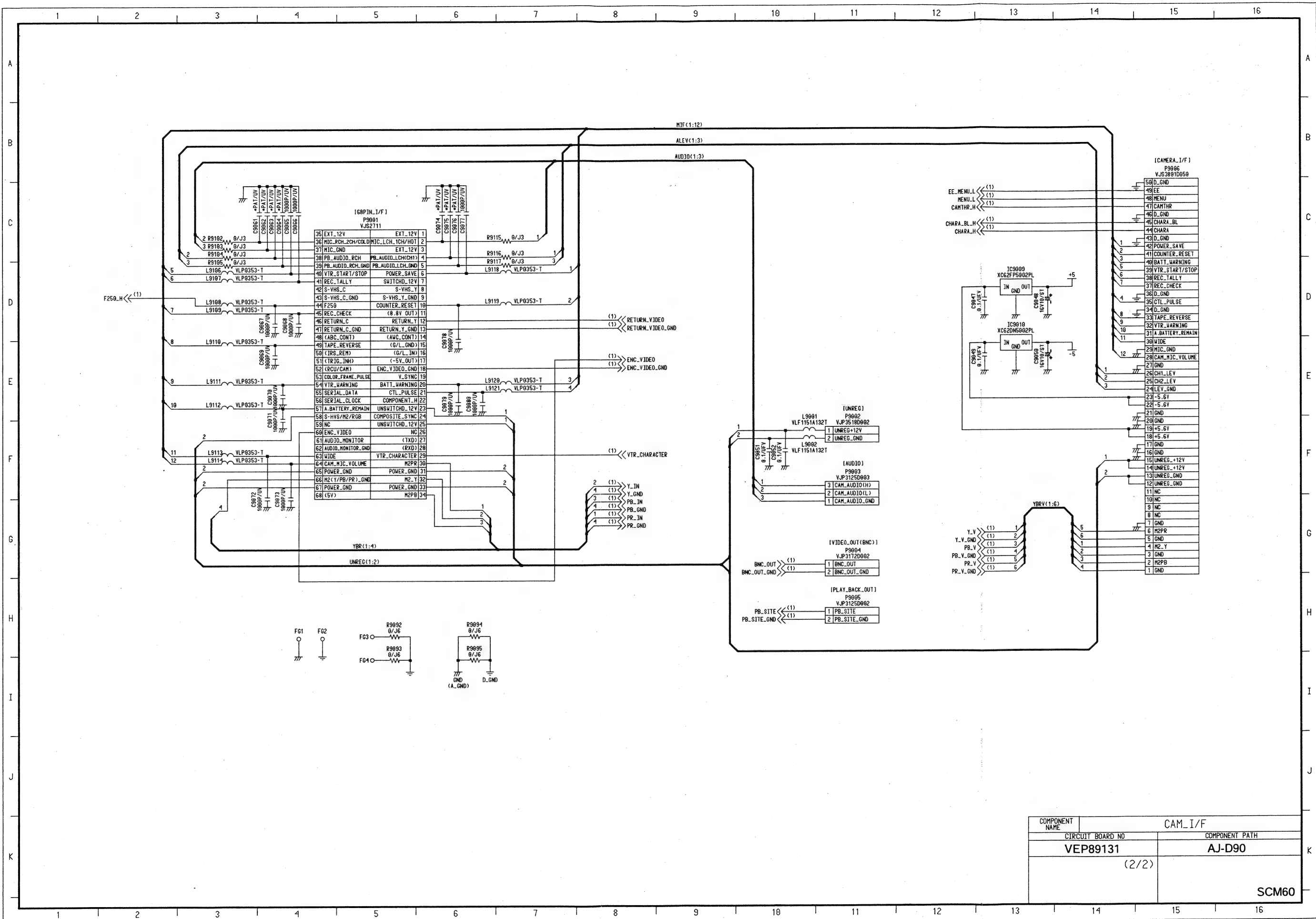


\$REF\$	T	P	E
C6011	*PAT/UV	*PAT/UV	*PAT/UV
C6020	*PAT/UV	*PAT/UV	*PAT/UV
C6810	18P/UV	18P/UV	22P/UV
IC6006	VSI2810	VSI2810	VSI2815
R6027	*PAT/J3	*PAT/J3	*PAT/J3
R6028	*PAT/J3	*PAT/J3	*PAT/J3
R6054	*PAT/J3	*PAT/J3	*PAT/J3
R6131	*PAT/J3	*PAT/J3	*PAT/J3
R6132	*PAT/J3	*PAT/J3	*PAT/J3
R6228	*PAT/J3	*PAT/J3	*PAT/J3
R6245	0/J3	*PAT/J3	*PAT/J3
R6246	*PAT/J3	*PAT/J3	*PAT/J3
R6312	*PAT/J3	*PAT/J3	*PAT/J3
R6313	*PAT/J3	*PAT/J3	*PAT/J3
R6314	*PAT/J3	*PAT/J3	*PAT/J3
R6315	*PAT/J3	*PAT/J3	*PAT/J3
R6316	*PAT/J3	*PAT/J3	*PAT/J3
R6317	*PAT/J3	*PAT/J3	*PAT/J3
R6318	*PAT/J3	*PAT/J3	*PAT/J3
R6319	*PAT/J3	*PAT/J3	*PAT/J3
R6802	0/J3	0/J3	*PAT/J3
R6815	*PAT/J3	*PAT/J3	*PAT/J3
X6802	VSX0614-T	VSX0614-T	VSX0615-T

COMPONENT NAME	SYSCON	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP86272	AJ-D90	
(5/5)	SCM58	

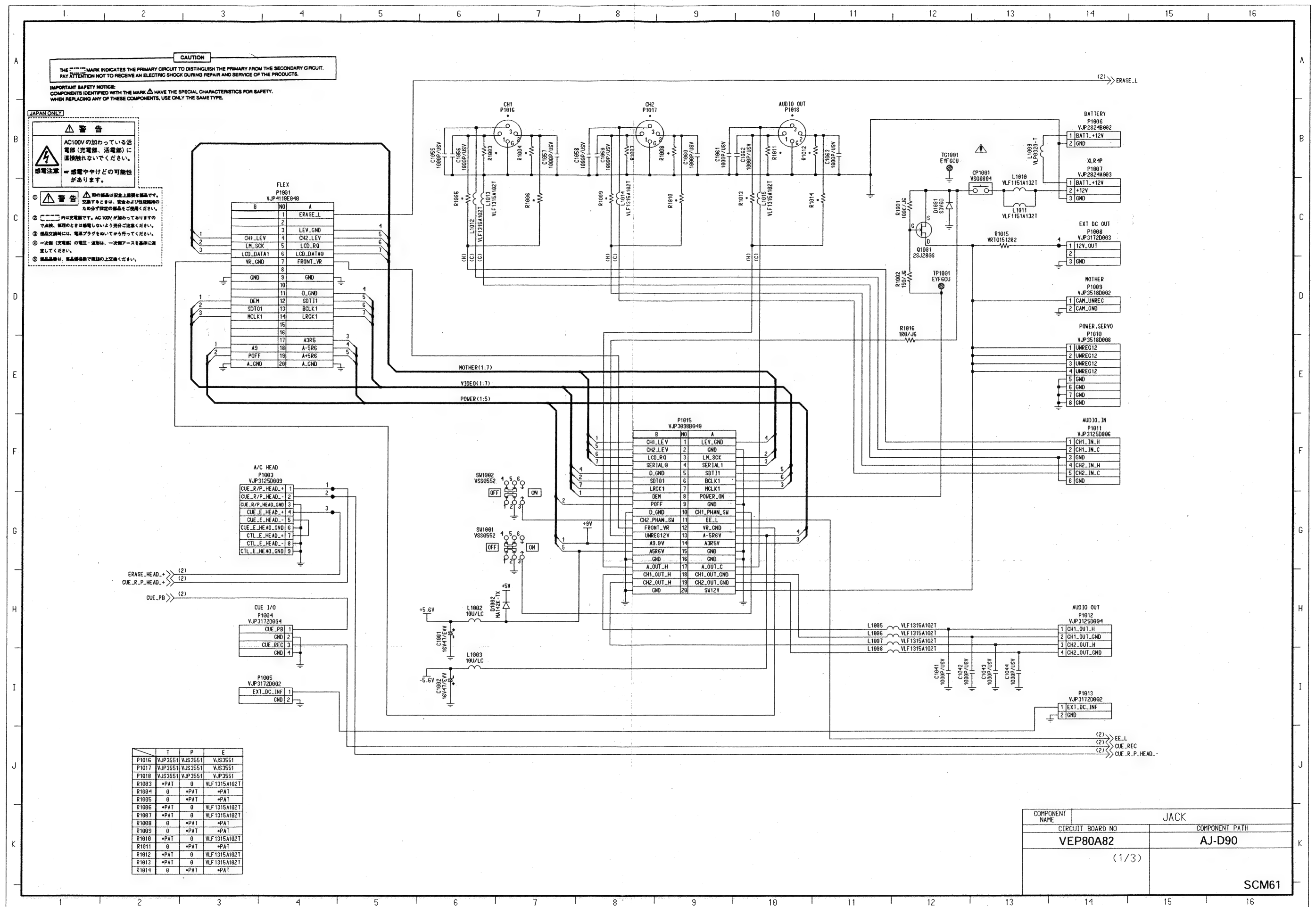


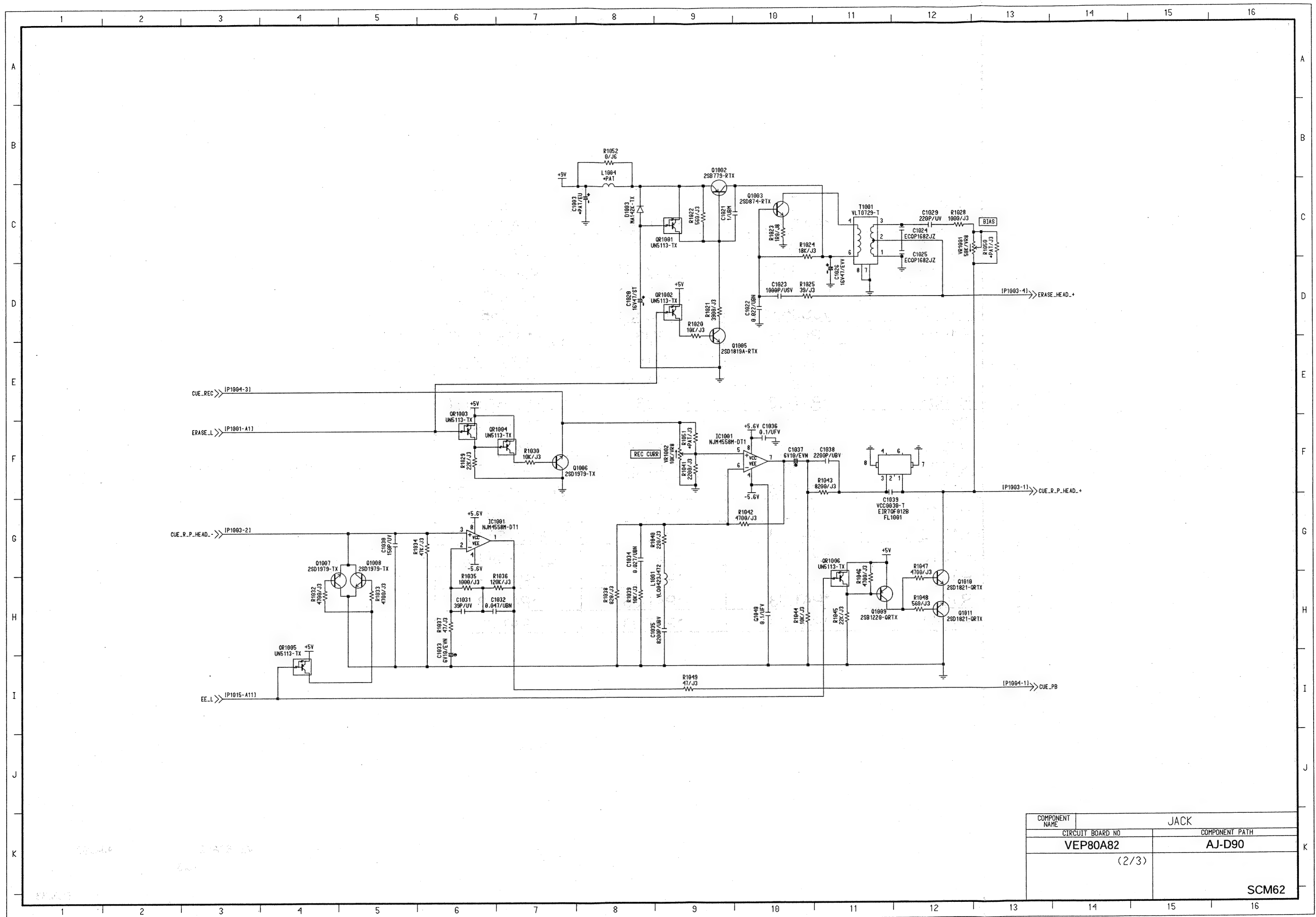
COMPONENT NAME		CAM_I/F	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP89131		AJ-D90	
(1/2)			
		SCM59	



COMPONENT NAME	CAM I/F
CIRCUIT BOARD NO	COMPONENT PATH
VEP89131	AJ-D90
(2/2)	

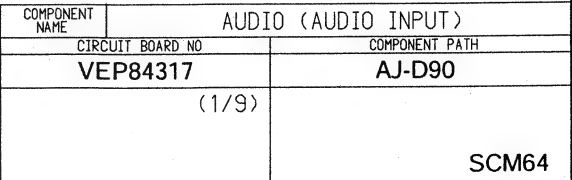
SCM60

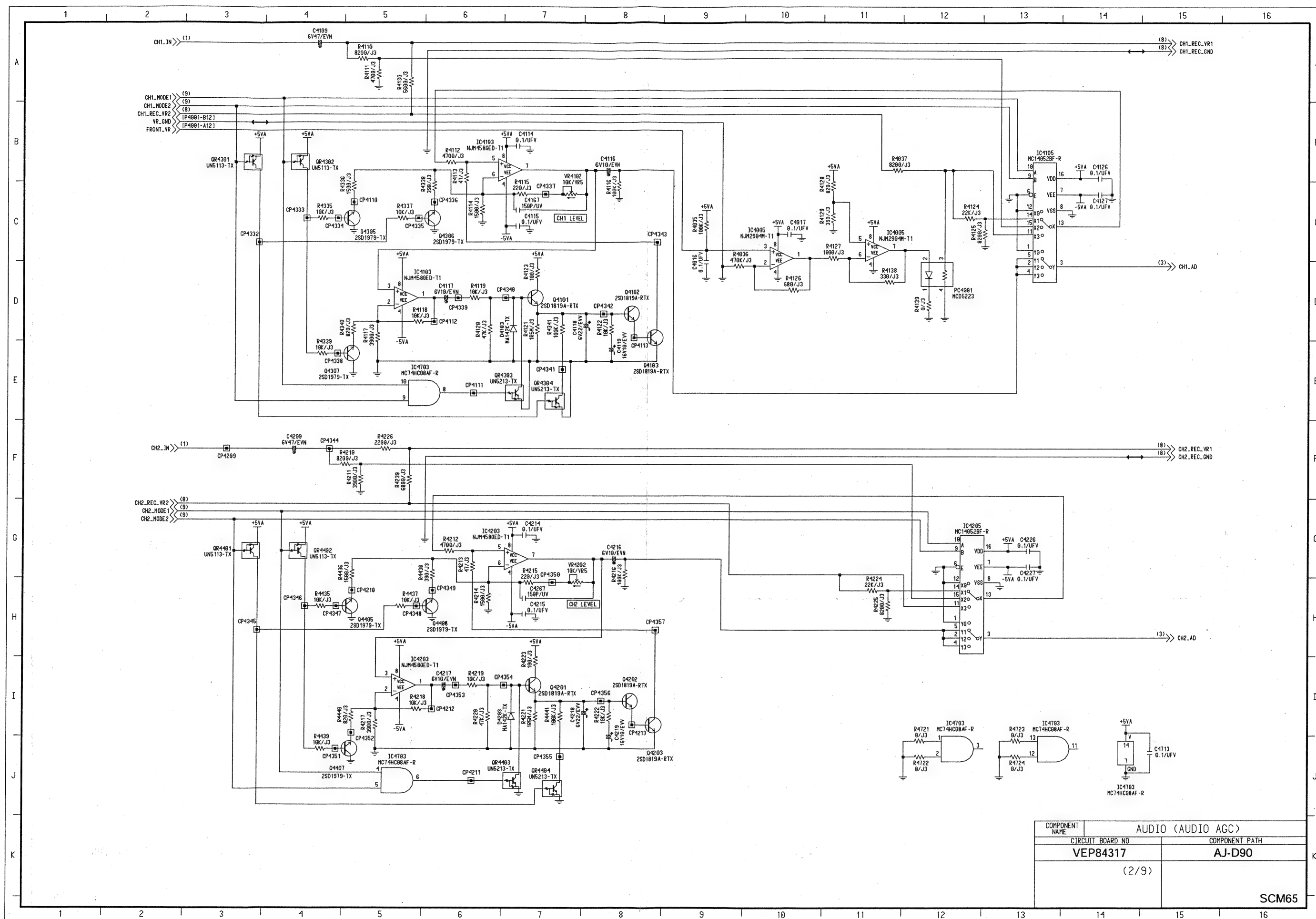




\$REF\$	T	P	E
C1003	*PAT/EU	*PAT/EU	*PAT/EU
L1004	*PAT	*PAT	*PAT
P1016	VJP3551	VJS3551	VJS3551
P1017	VJP3551	VJS3551	VJS3551
P1018	VJS3551	VJP3551	VJP3551
R1003	*PAT/J3	0/J3	VLF1315A102T
R1004	0/J3	*PAT/J3	*PAT/J3
R1005	0/J3	*PAT/J3	*PAT/J3
R1006	*PAT/J3	0/J3	VLF1315A102T
R1007	*PAT/J3	0/J3	VLF1315A102T
R1008	0/J3	*PAT/J3	*PAT/J3
R1009	0/J3	*PAT/J3	*PAT/J3
R1010	*PAT/J3	0/J3	VLF1315A102T
R1011	0/J3	*PAT/J3	*PAT/J3
R1012	*PAT/J3	0/J3	VLF1315A102T
R1013	*PAT/J3	0/J3	VLF1315A102T
R1014	0/J3	*PAT/J3	*PAT/J3
R1050	*PAT/J3	*PAT/J3	*PAT/J3
R1051	*PAT/J3	*PAT/J3	*PAT/J3

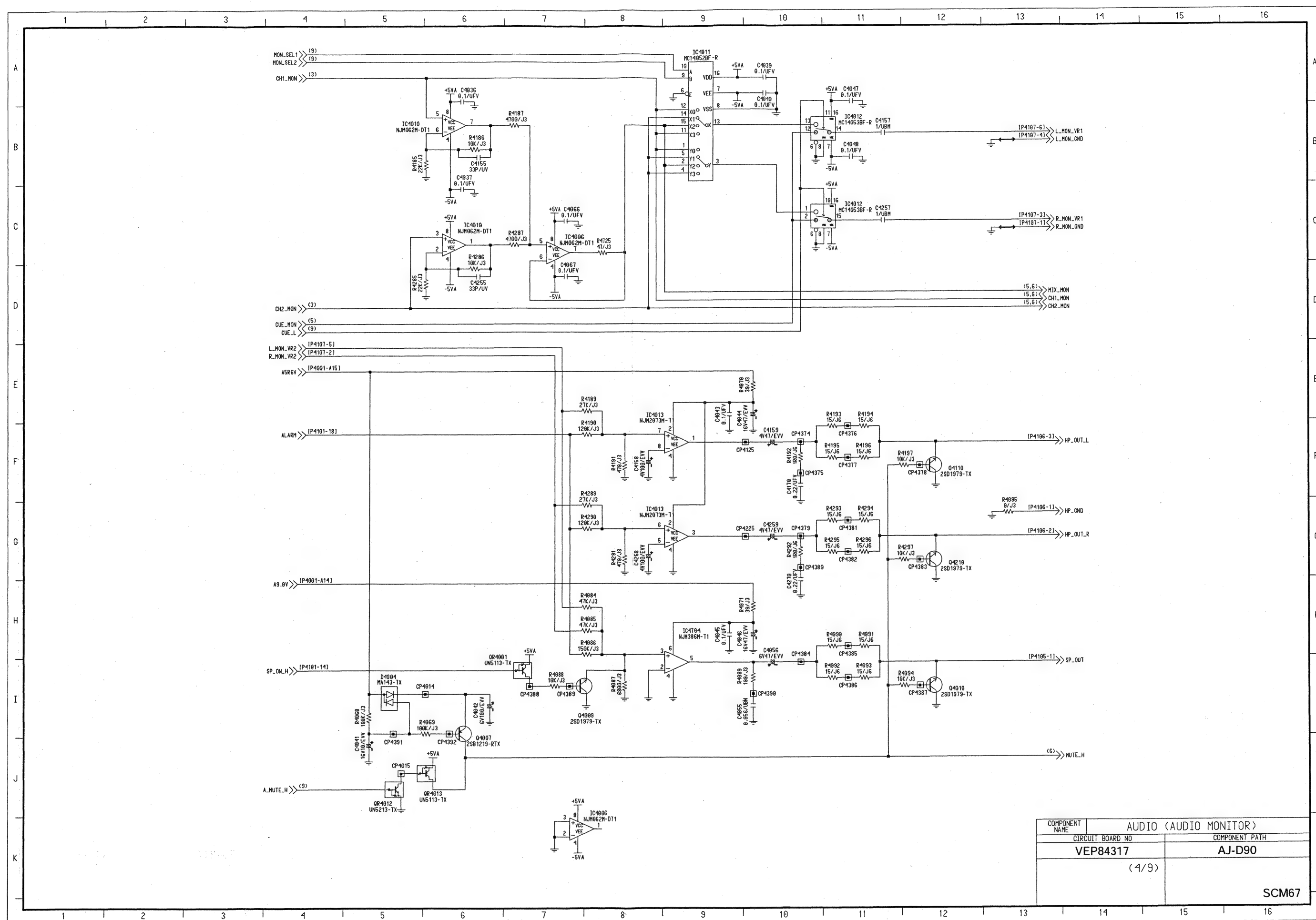
COMPONENT NAME	JACK	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP80A82	AJ-D90	
(3/3)	SCM63	

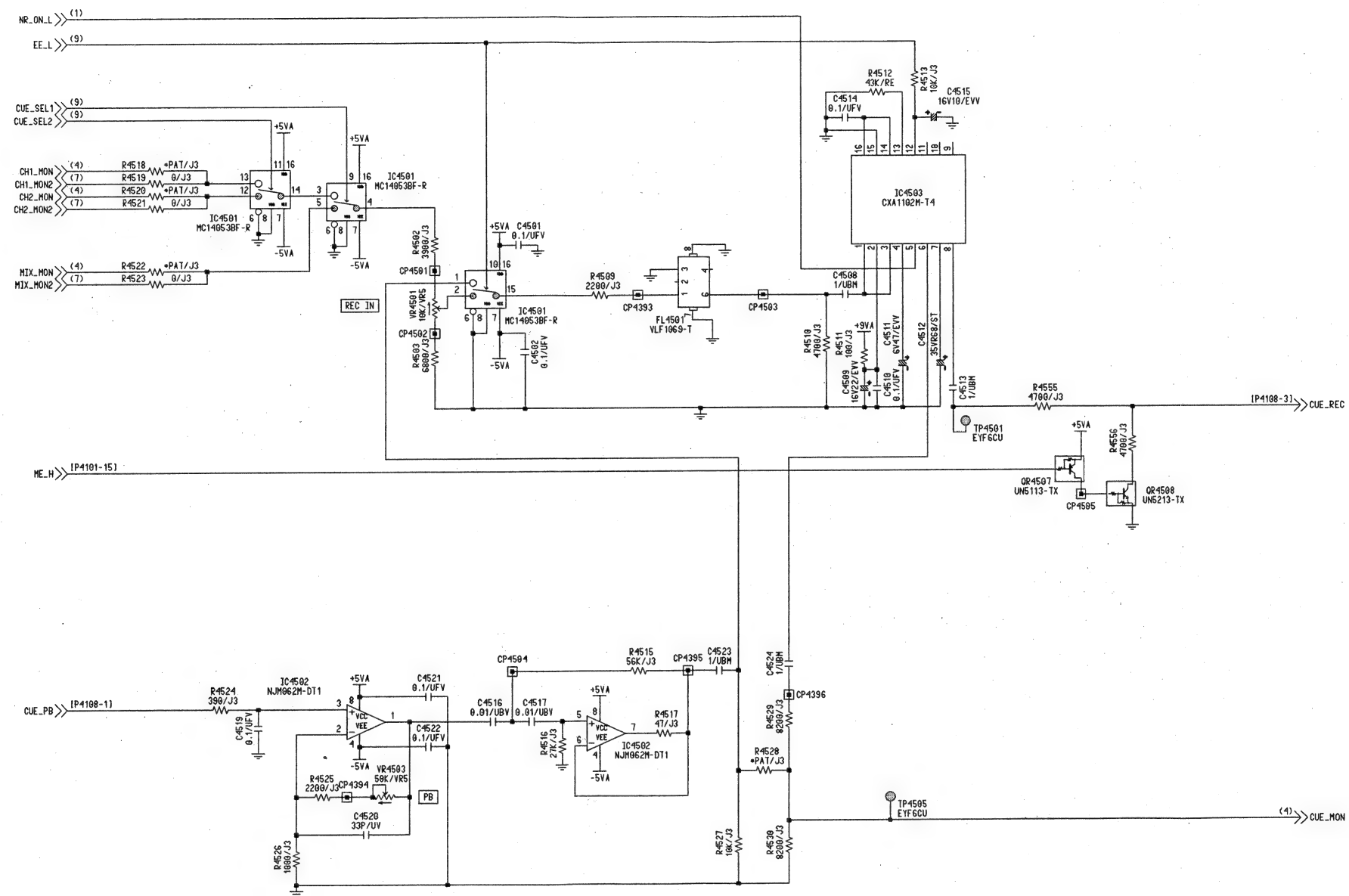




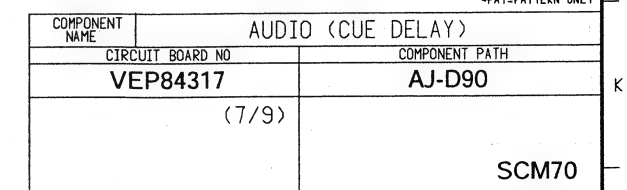
COMPONENT NAME		AUDIO (AUDIO AGC)	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP84317		AJ-D90	
(2/9)			

SCM65

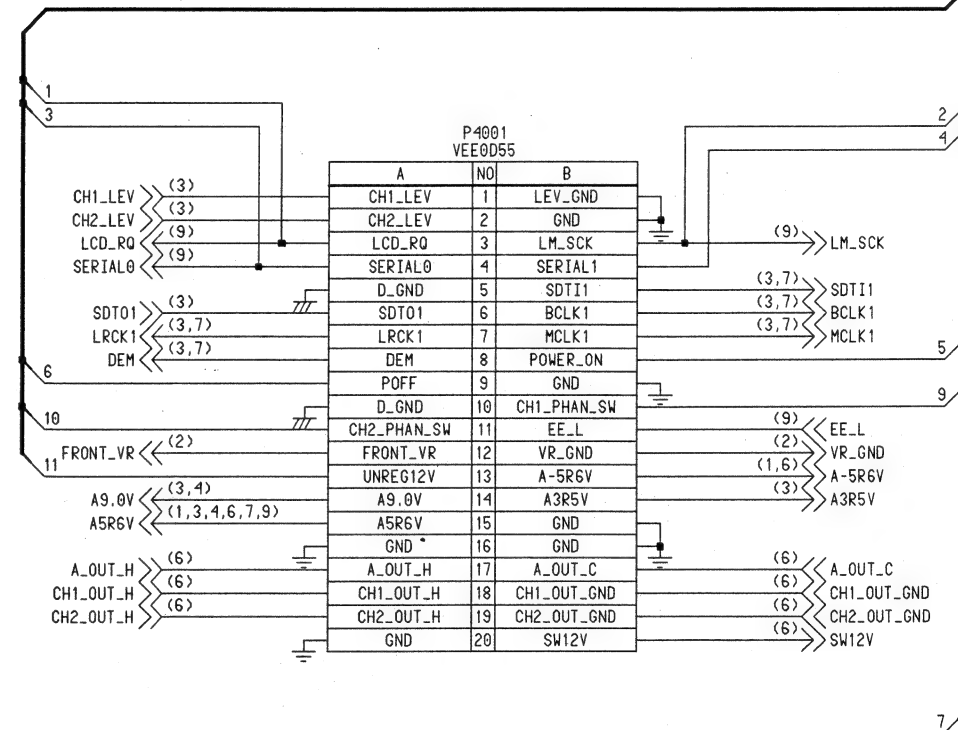
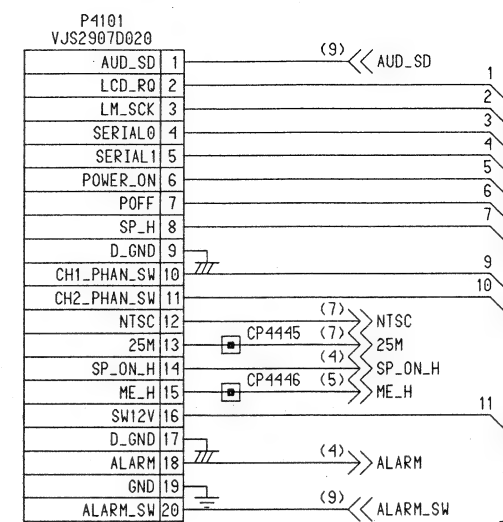
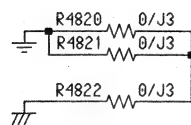
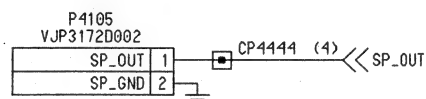
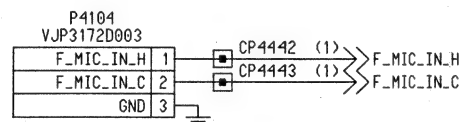
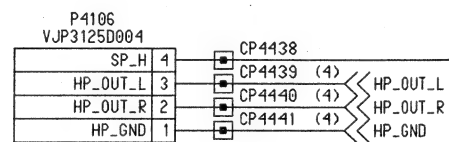
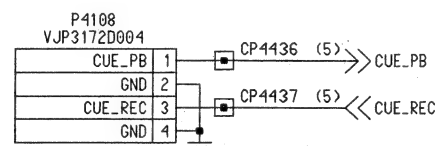
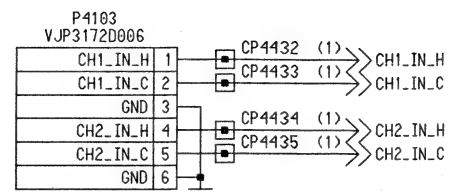
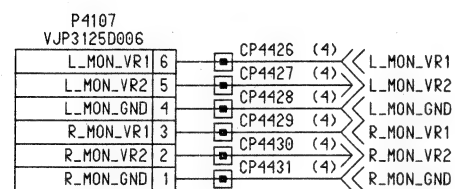
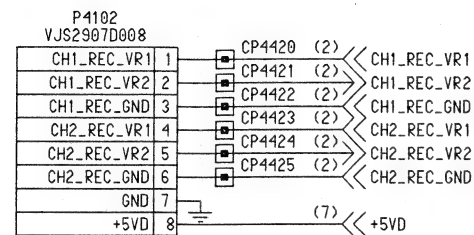




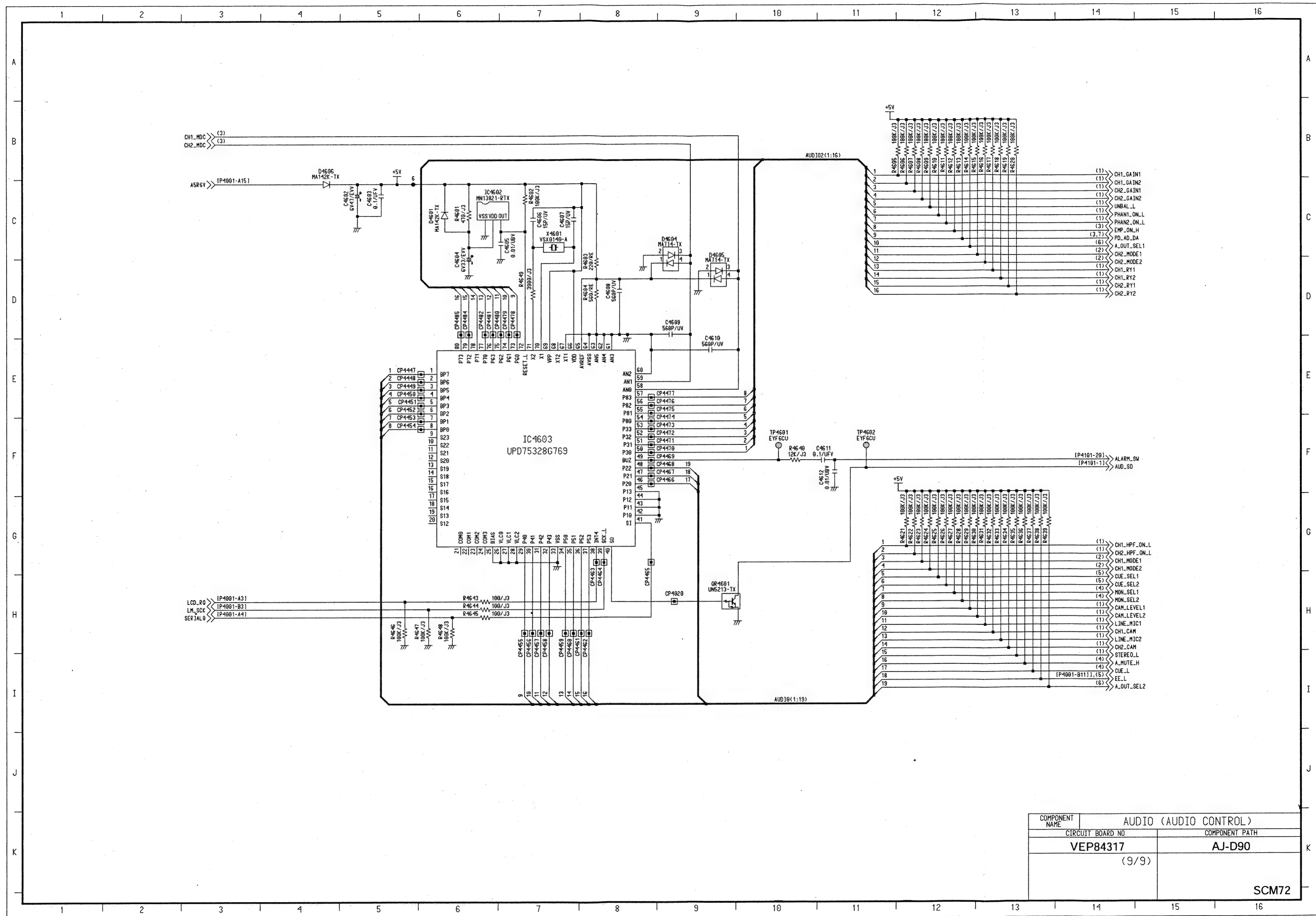
AUDIO (AUDIO CUE)	
COMPONENT NAME	CIRCUIT BOARD NO
	VEP84317
	(5/9)
COMPONENT PATH	AJ-D90
	SCM68



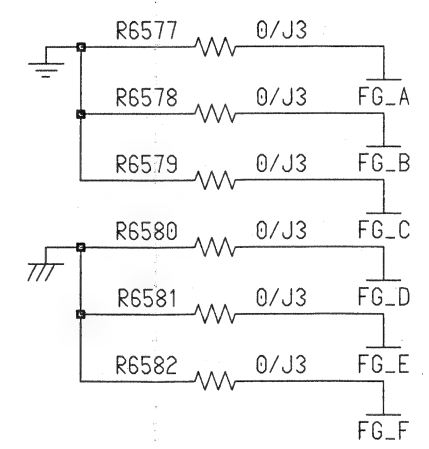
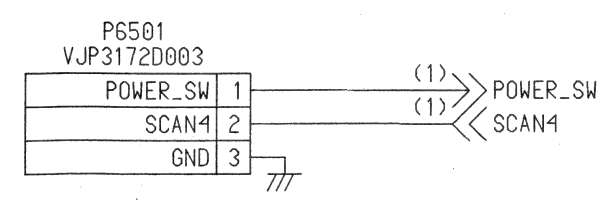
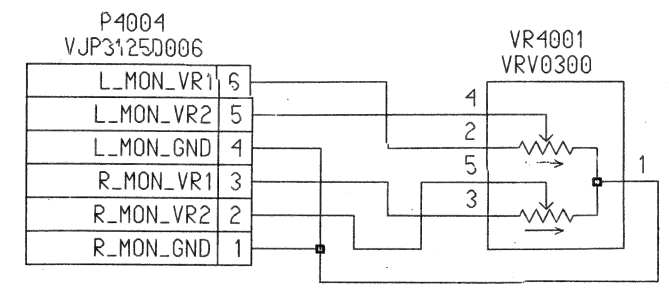
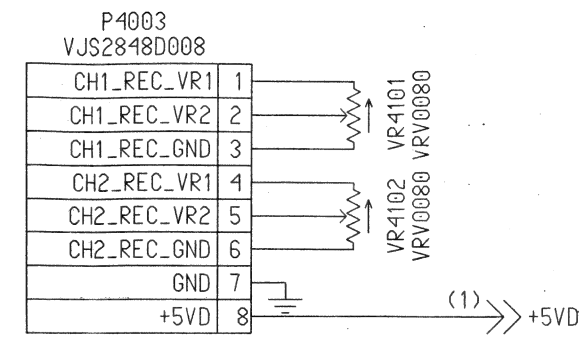
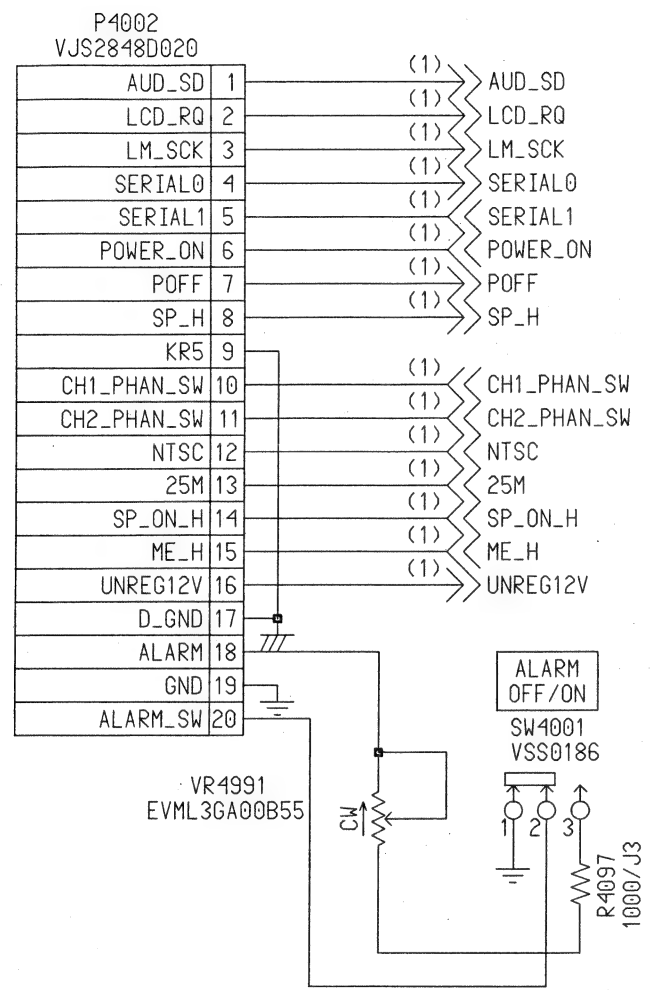
SCM70 | —



COMPONENT NAME	AUDIO (AUDIO I/F)	
CIRCUIT BOARD NO	VEP84317	COMPONENT PATH
	(8/9)	AJ-D90
		SCM71



COMPONENT NAME		AUDIO (AUDIO CONTROL)	
CIRCUIT BOARD NO		COMPONENT PATH	
VEP84317		AJ-D90	
(9/9)			
		SCM72	



COMPONENT NAME	LCD (LCD I/F)	
CIRCUIT BOARD NO	VEP86271	COMPONENT PATH
	(2/2)	AJ-D90
		SCM74

1 2 3 4

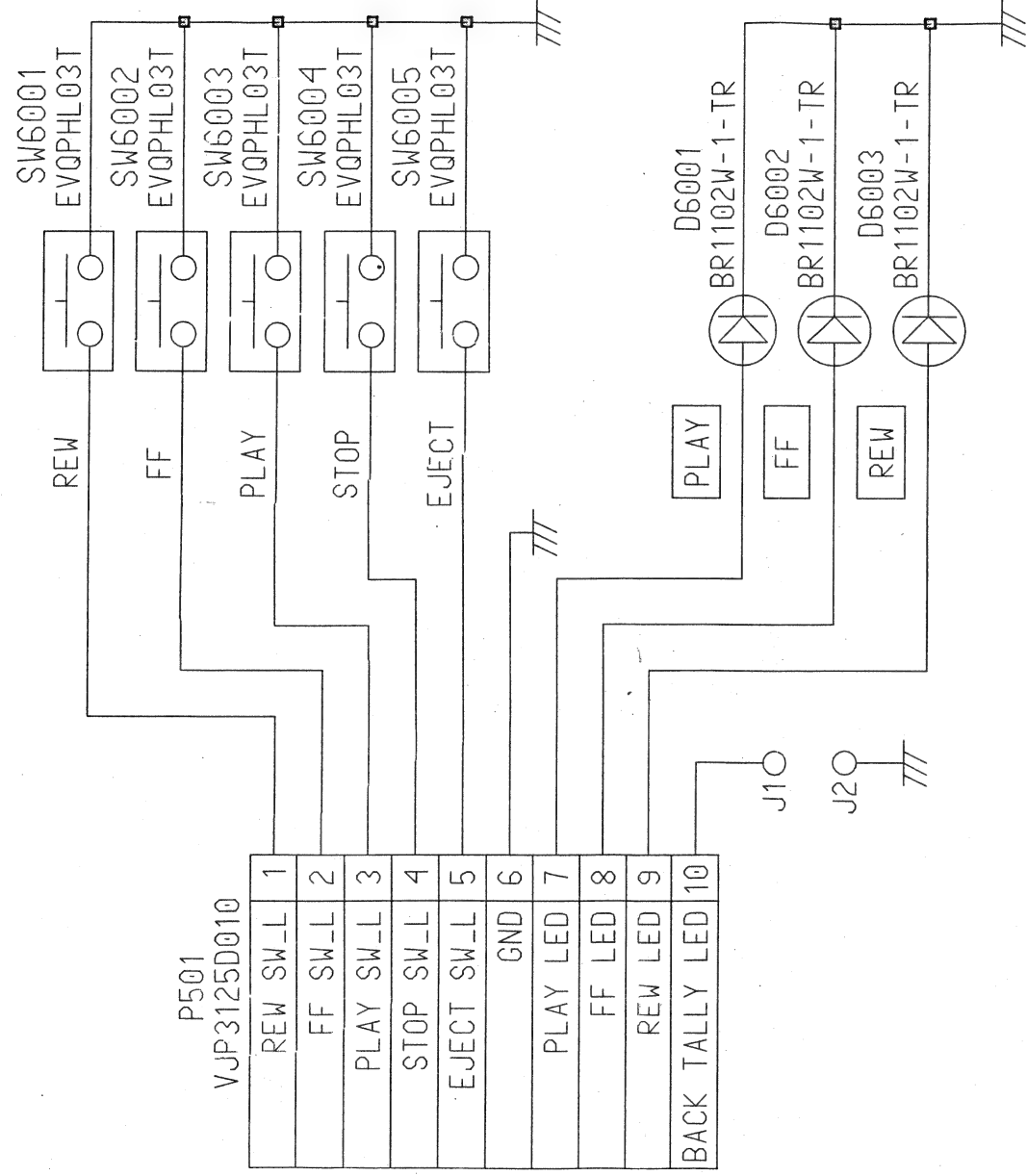
A

B

C

D

E



COMPONENT NAME	OPERATE	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP86149	AJ-D90	
(1/1)		SCM75

1

2

3

4

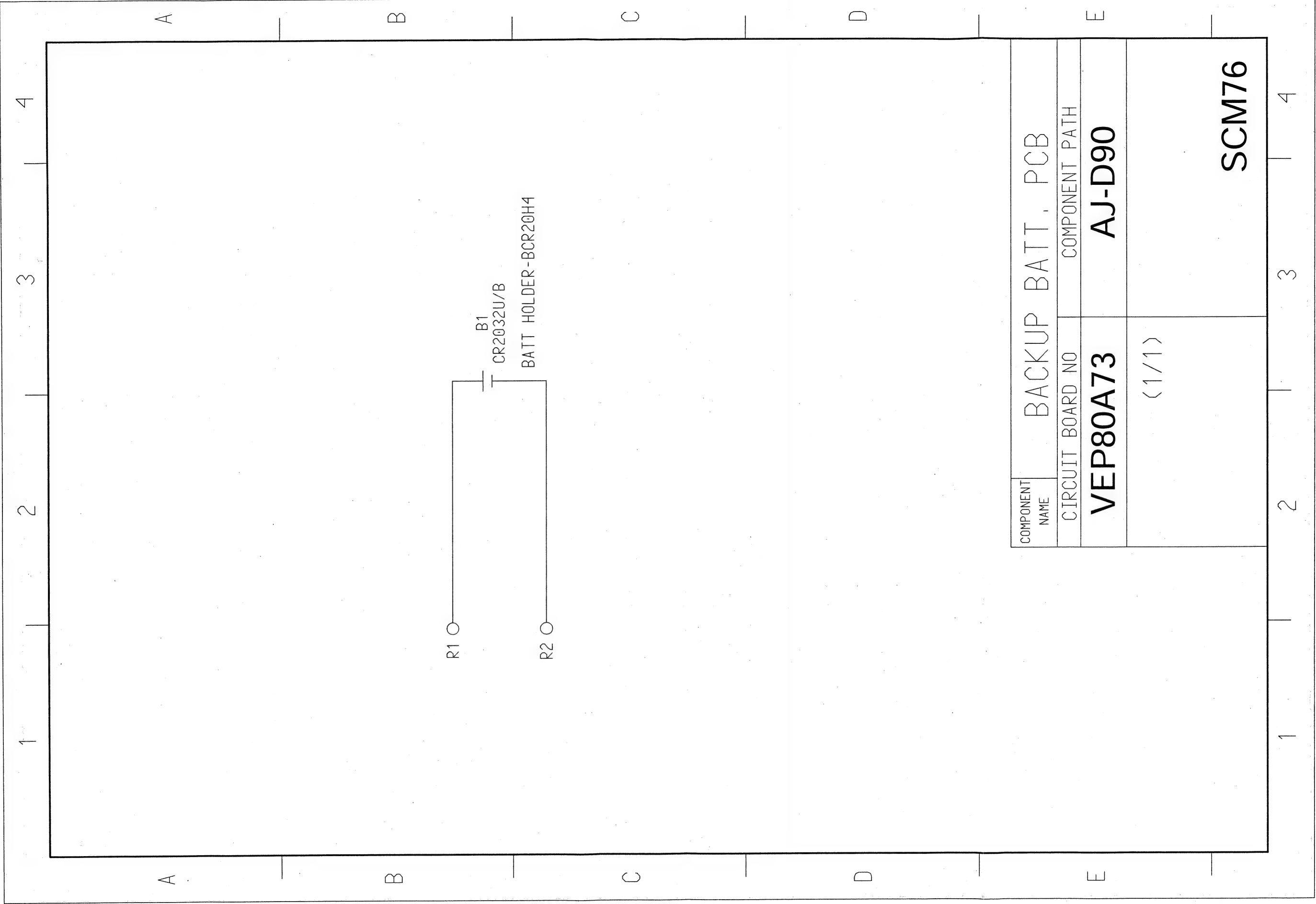
A

B

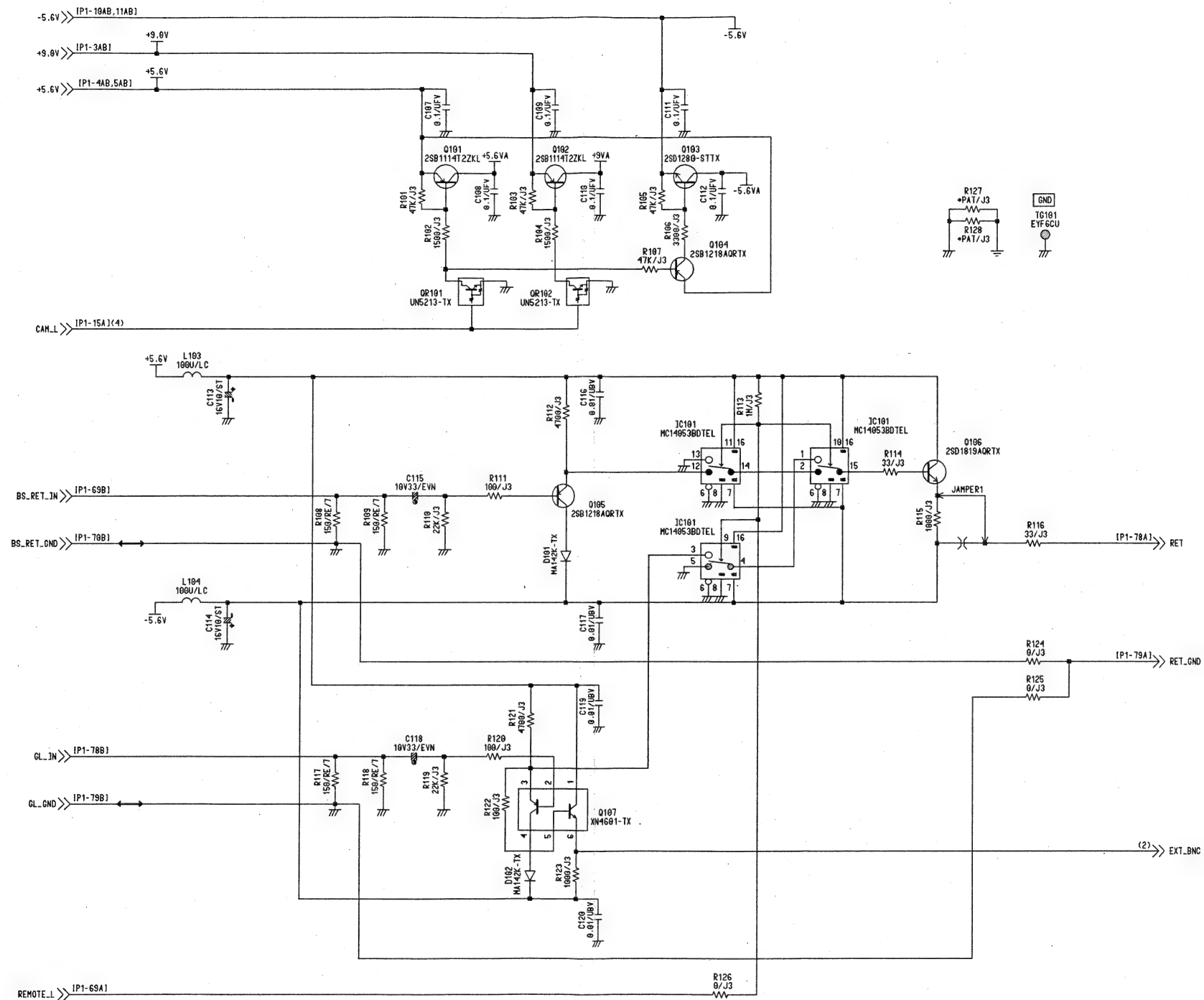
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D

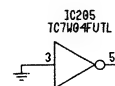
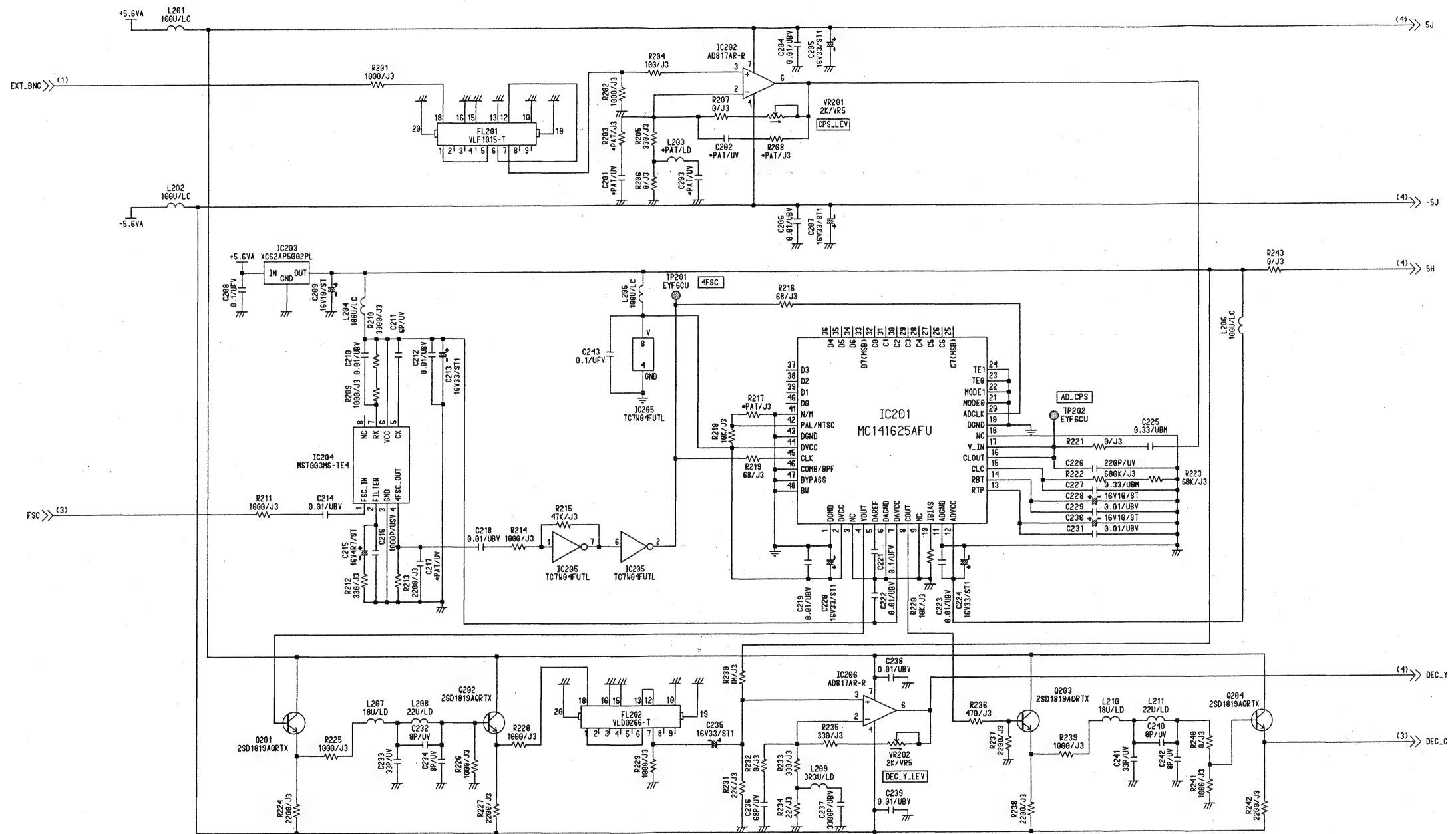
E



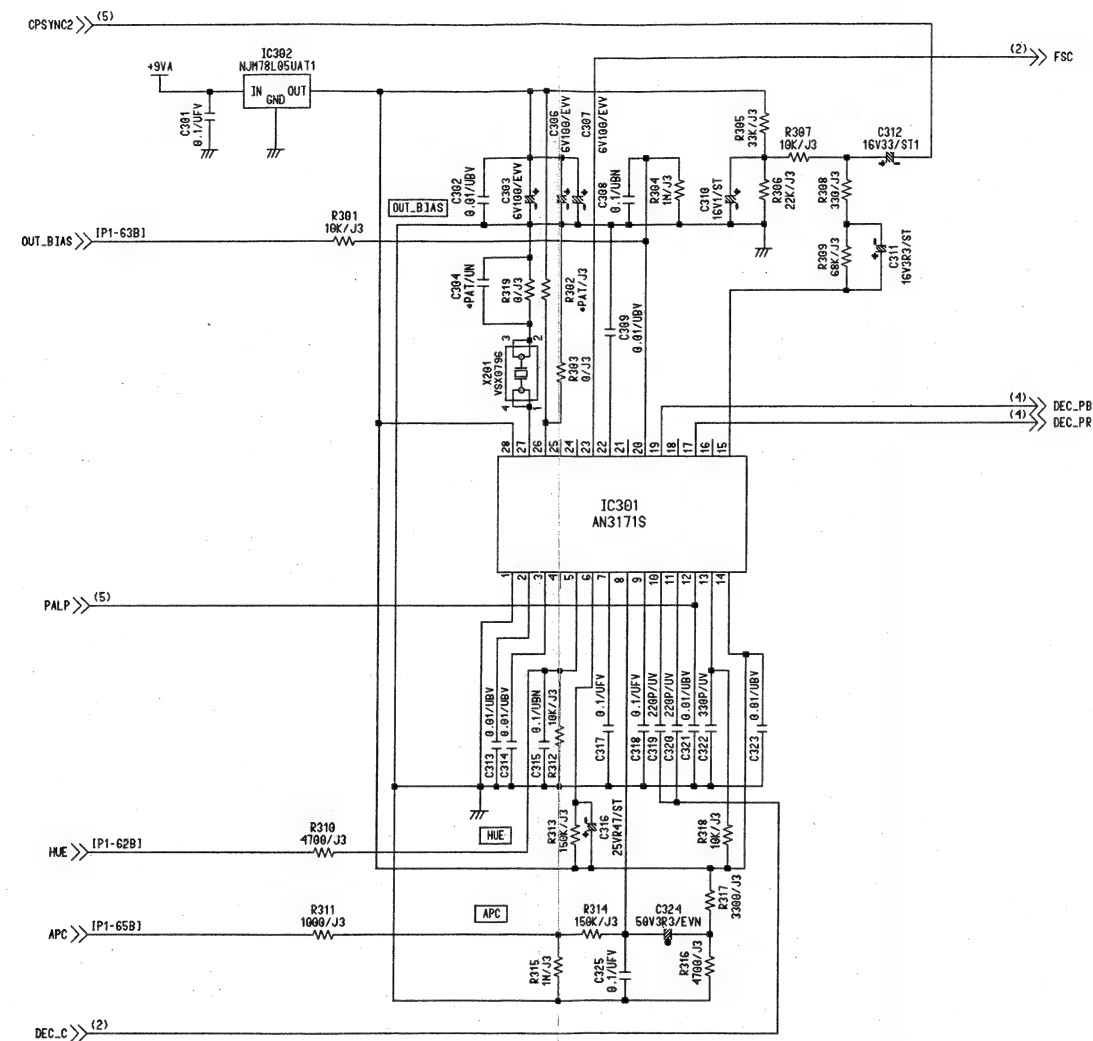
COMPONENT NAME	BACKUP BATT. PCB	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP80A73	AJ-D90	
(1/1)	SCM76	



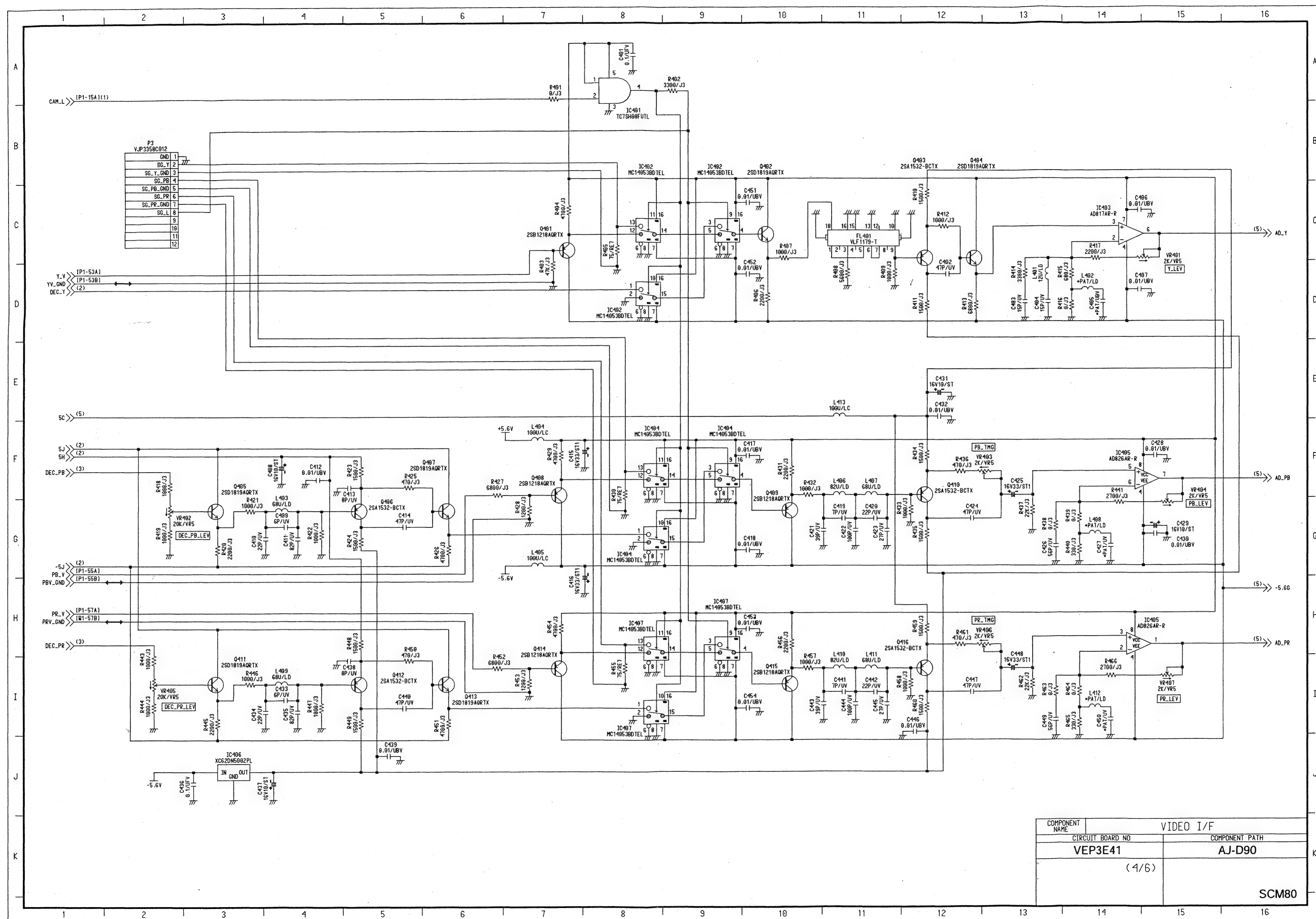
COMPONENT NAME	VIDEO_I/F
CIRCUIT BOARD NO	COMPONENT PATH
VEP3E41	AJ-D90
(1/6)	
SCM77	

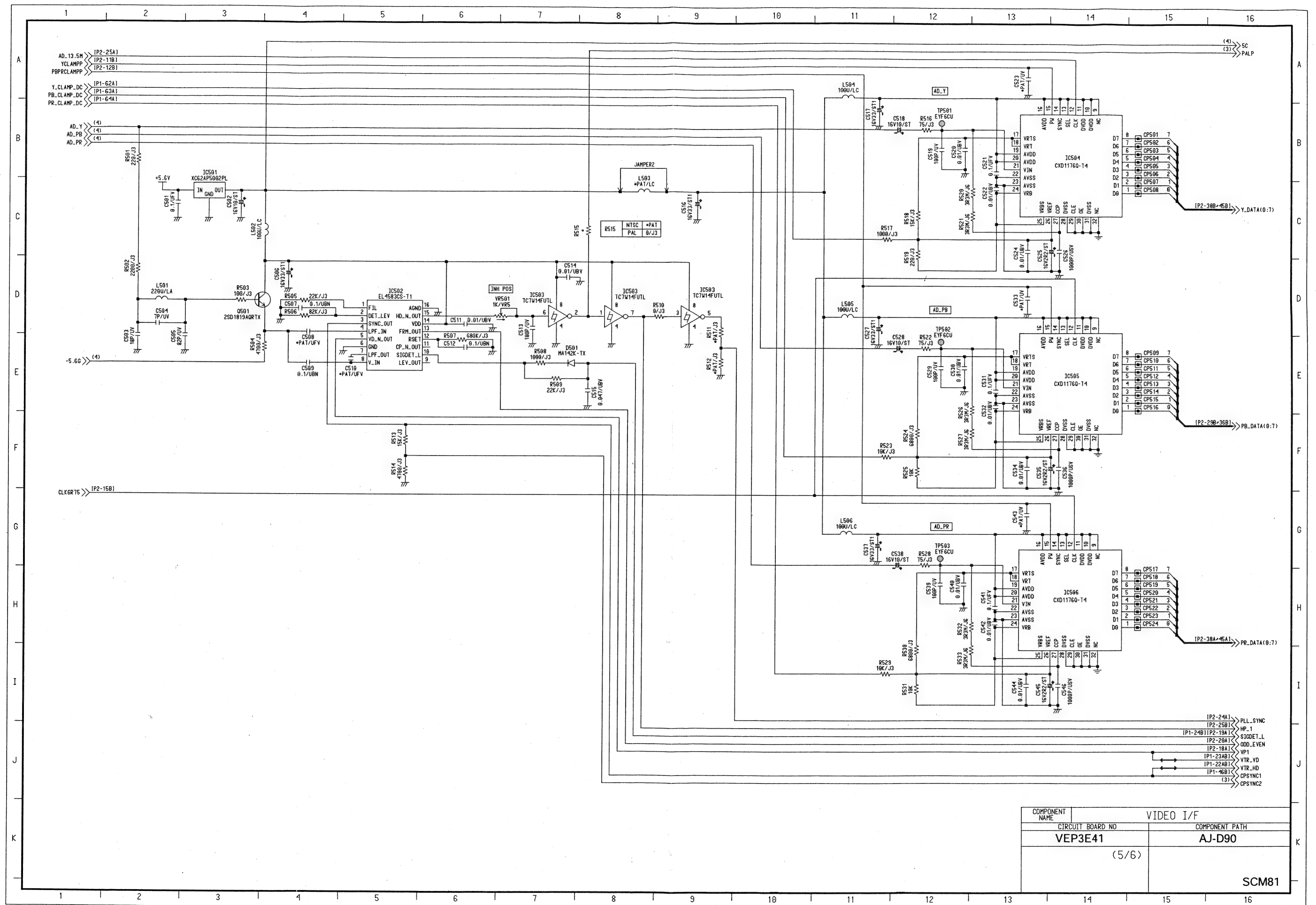


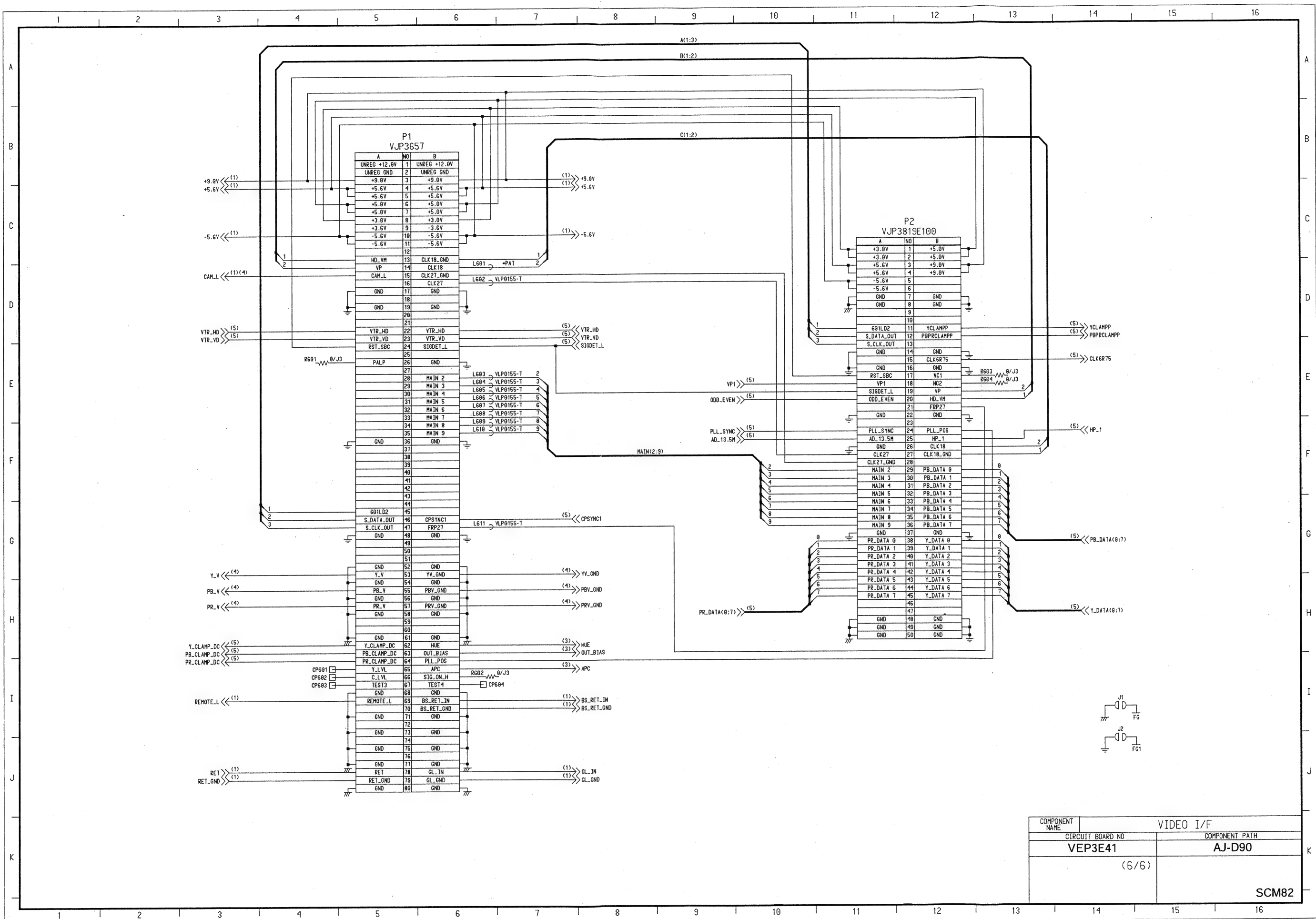
COMPONENT NAME	VIDEO I/F
CIRCUIT BOARD NO	COMPONENT PATH
VEP3E41	AJ-D90
(2/6)	
SCM78	



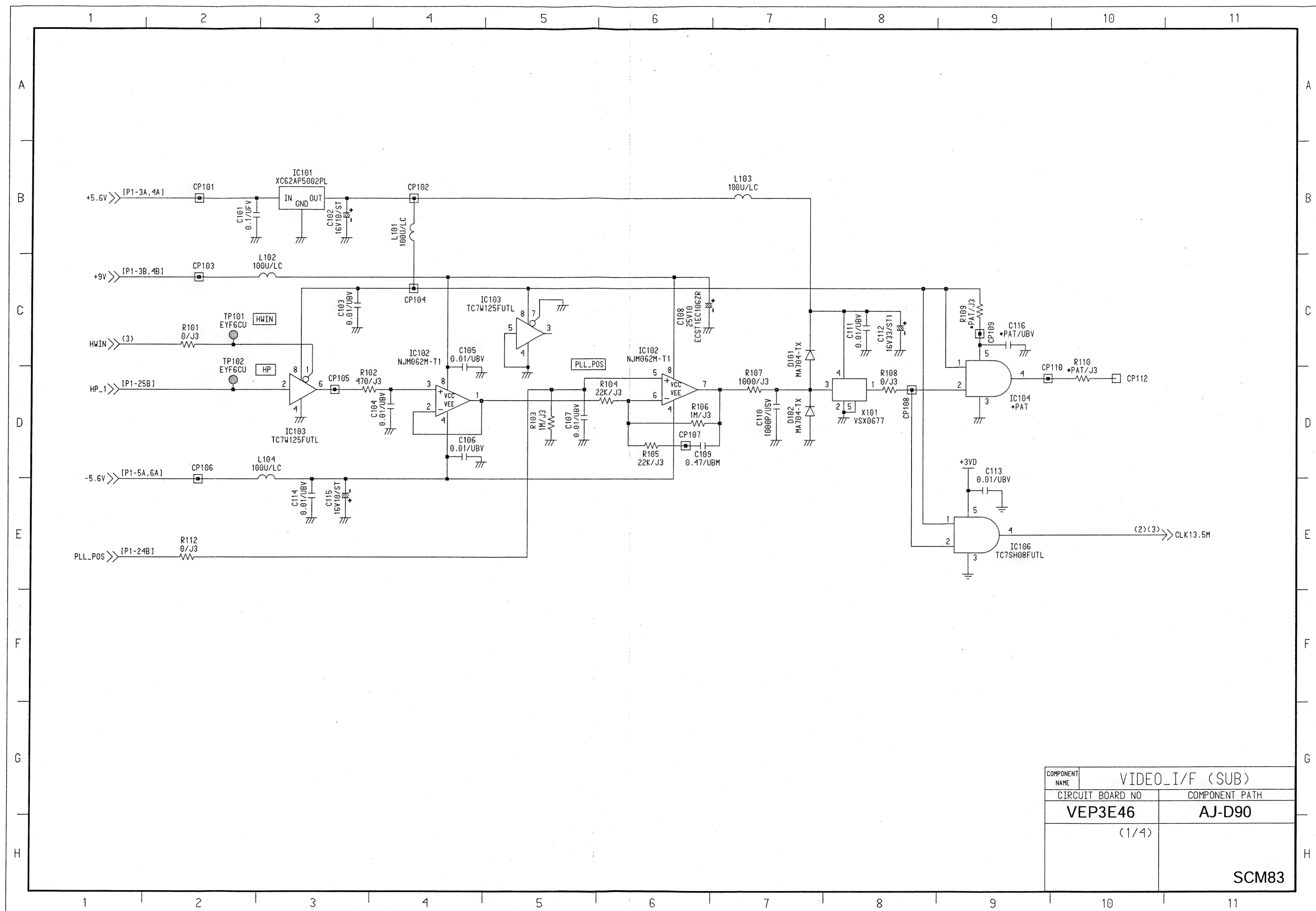
COMPONENT NAME	VIDEO I/F	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP3E41	AJ-D90	
(3/6)		
	SCM79	



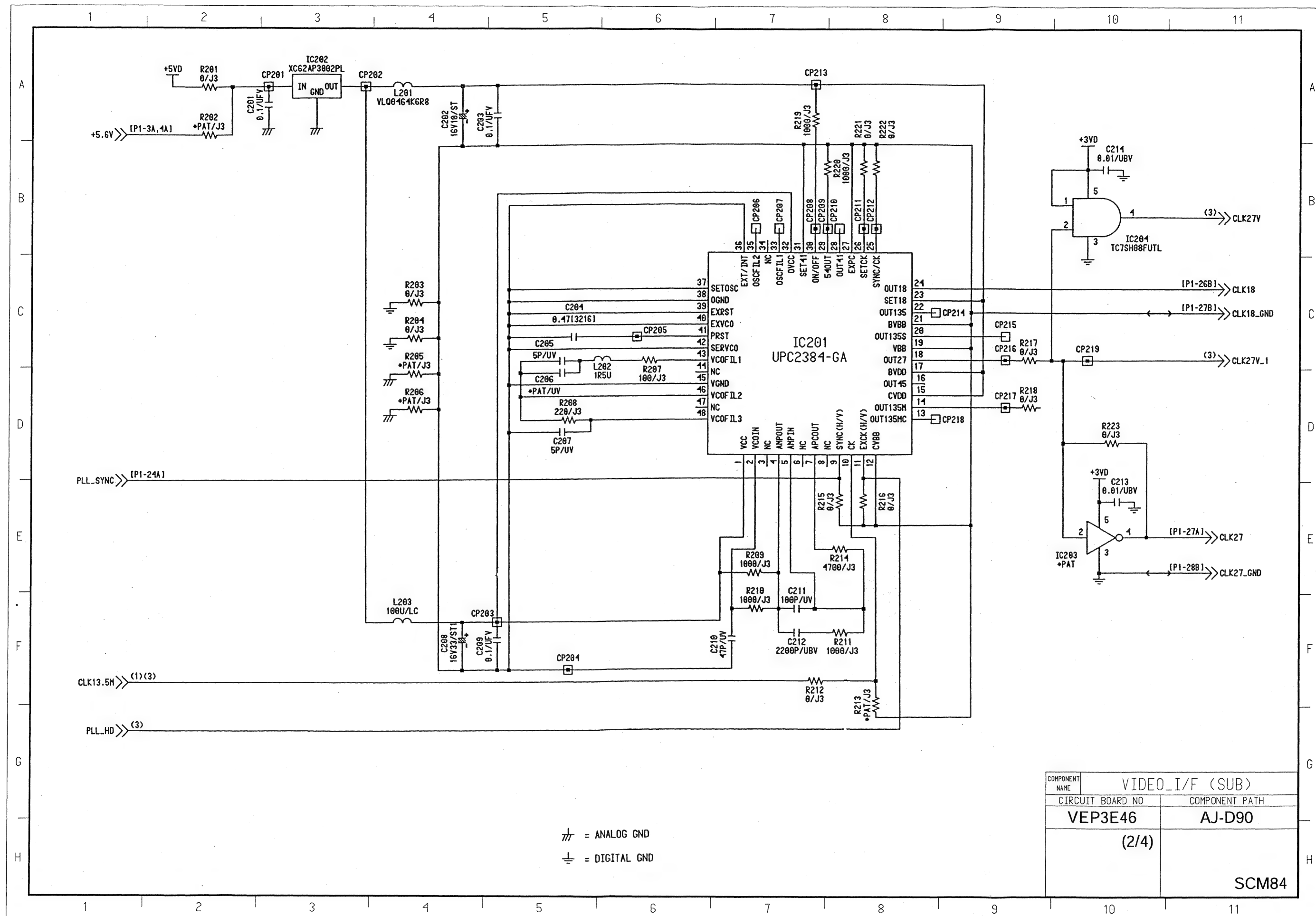


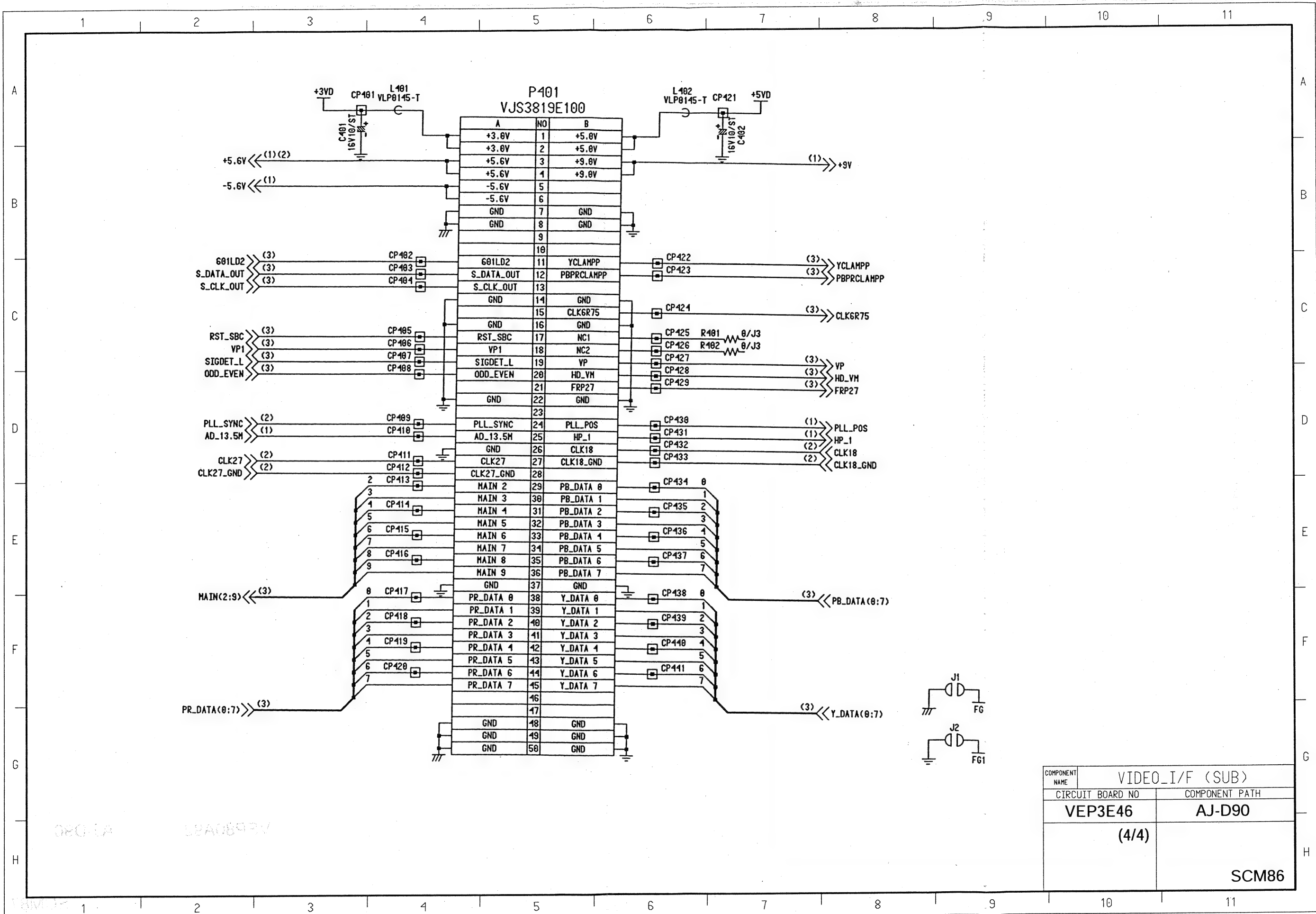


VIDEO I/F	
COMPONENT NAME	CIRCUIT BOARD NO
VEP3E41	AJ-D90
(6/6)	
SCM82	

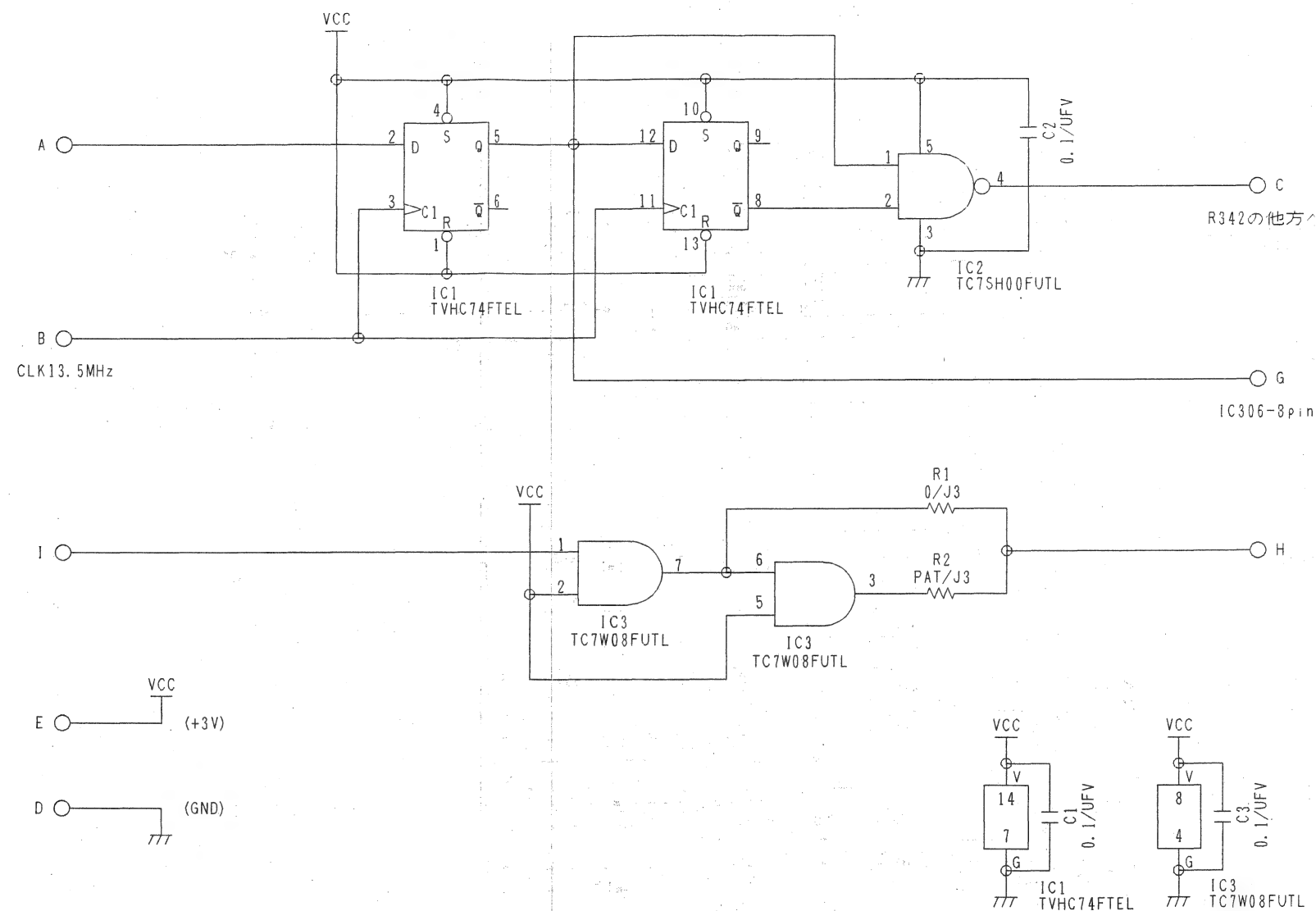


COMPONENT NAME	VIDEO_I/F (SUB)	
CIRCUIT BOARD NO	VEP3E46	
COMPONENT PATH	AJ-D90	
	(1/4)	
	SCM83	

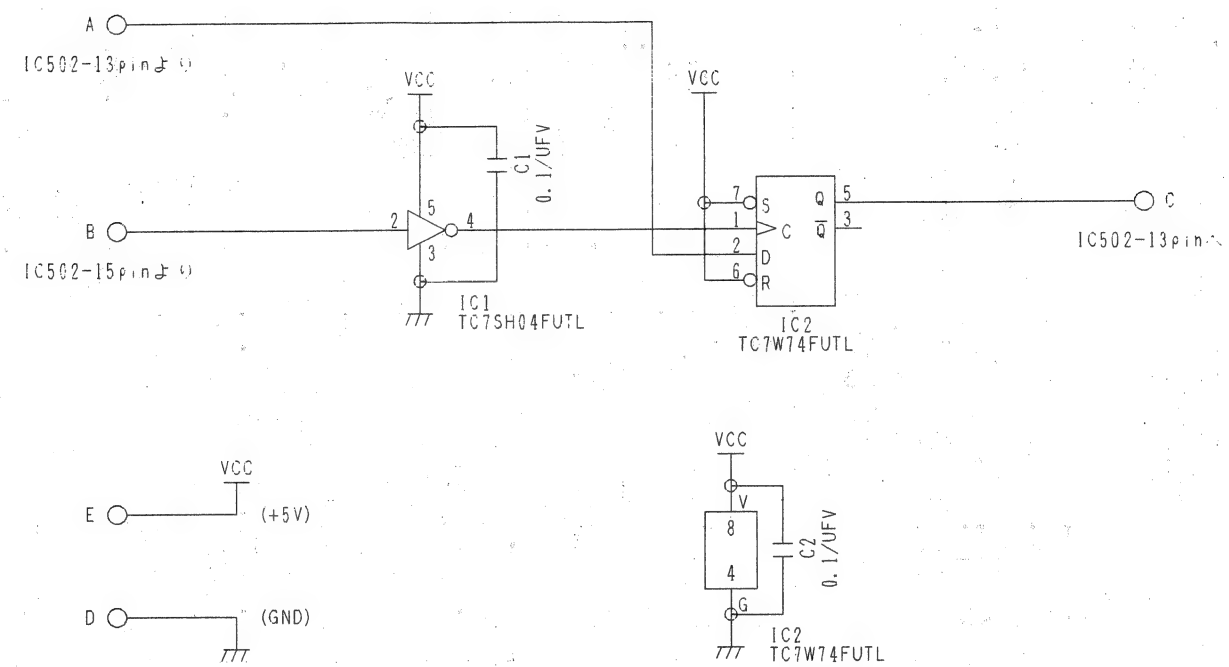




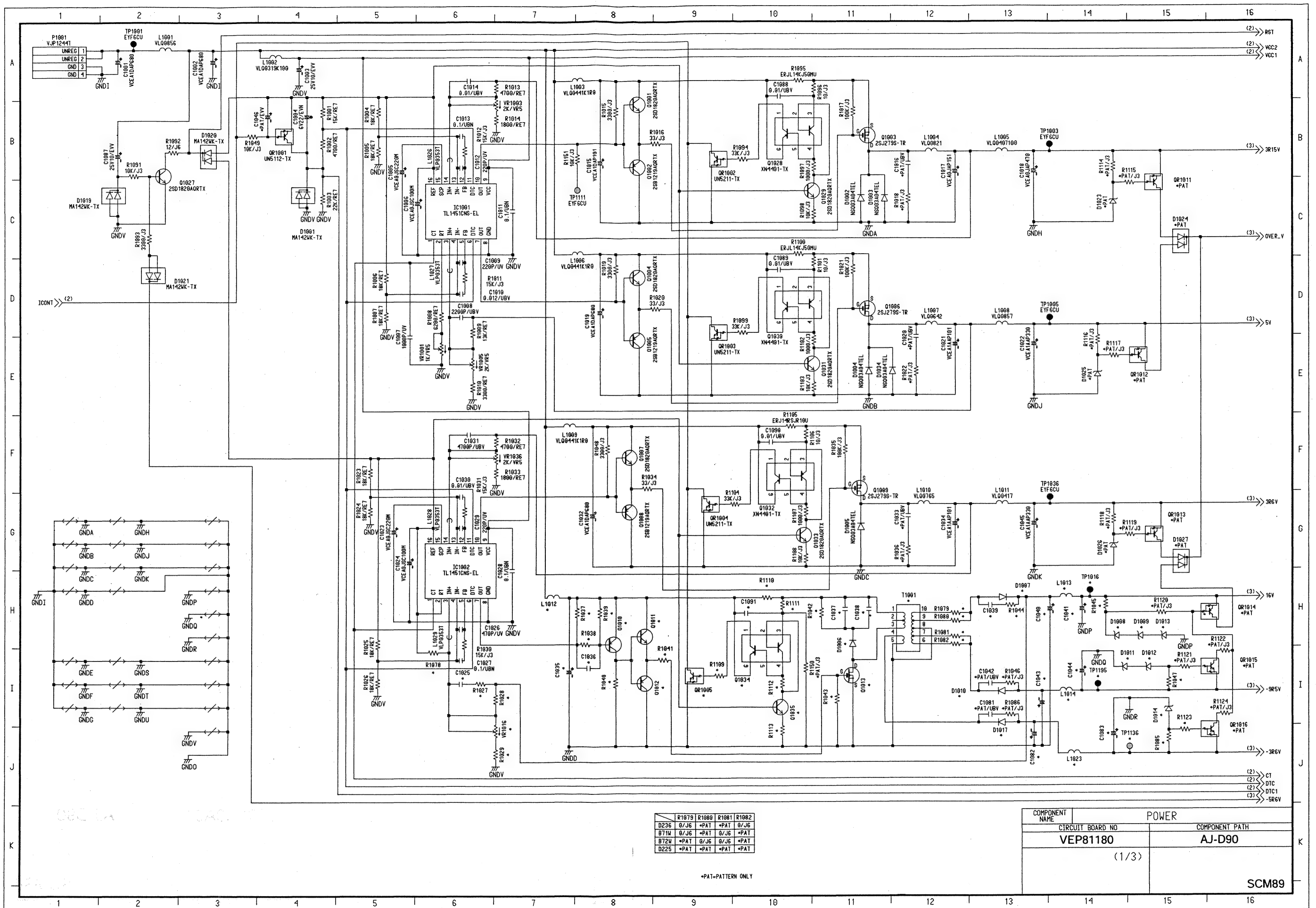
COMPONENT NAME	VIDEO_I/F (SUB)	
	CIRCUIT BOARD NO	COMPONENT PATH
	VEP3E46	AJ-D90
	(4/4)	
		SCM86

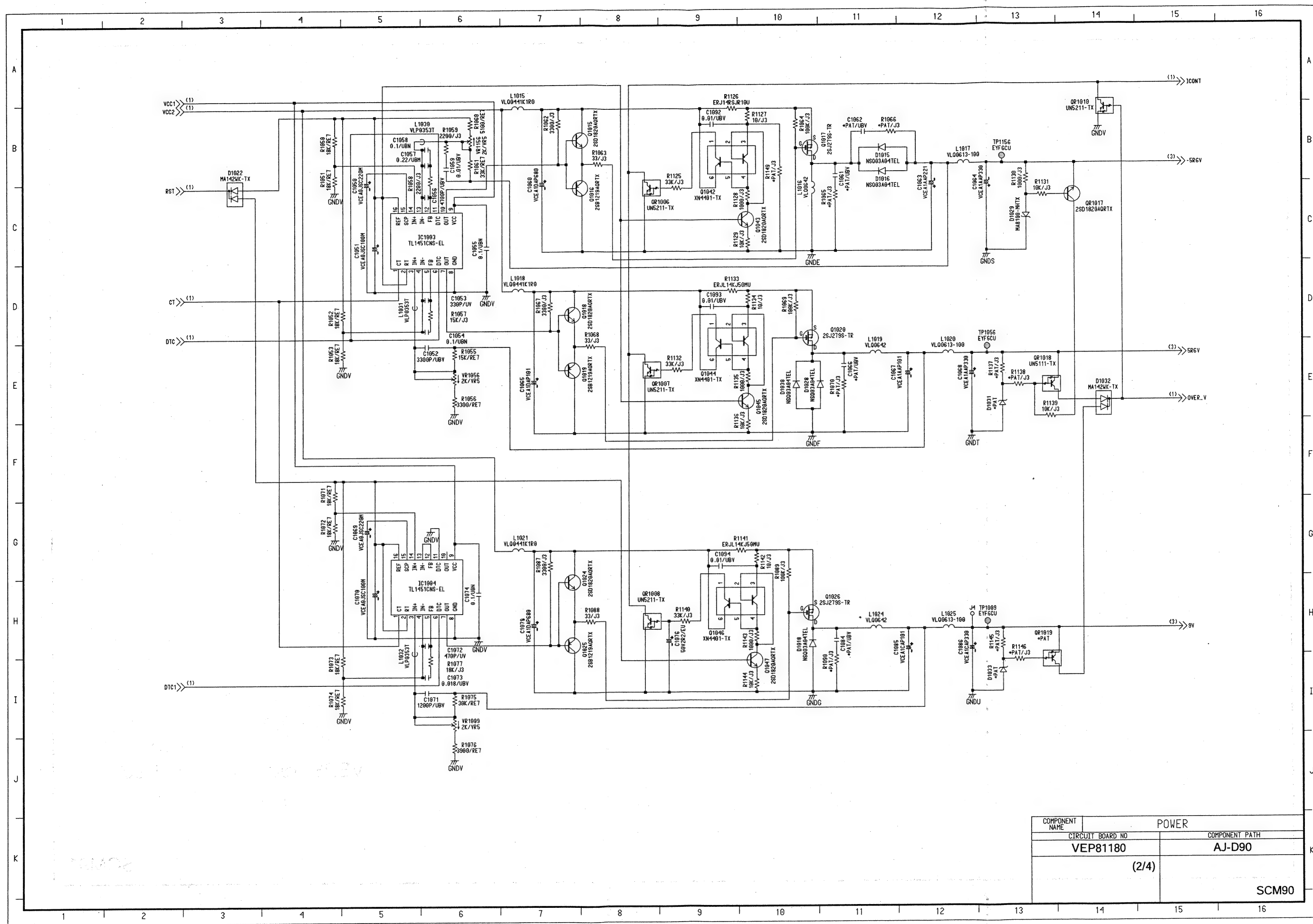


COMPONENT NAME	RESET_PULSE	
CIRCUIT BOARD NO	COMPONENT PATH	
VEP80A92	AJ-D90	
(1/1)		
	SCM87	

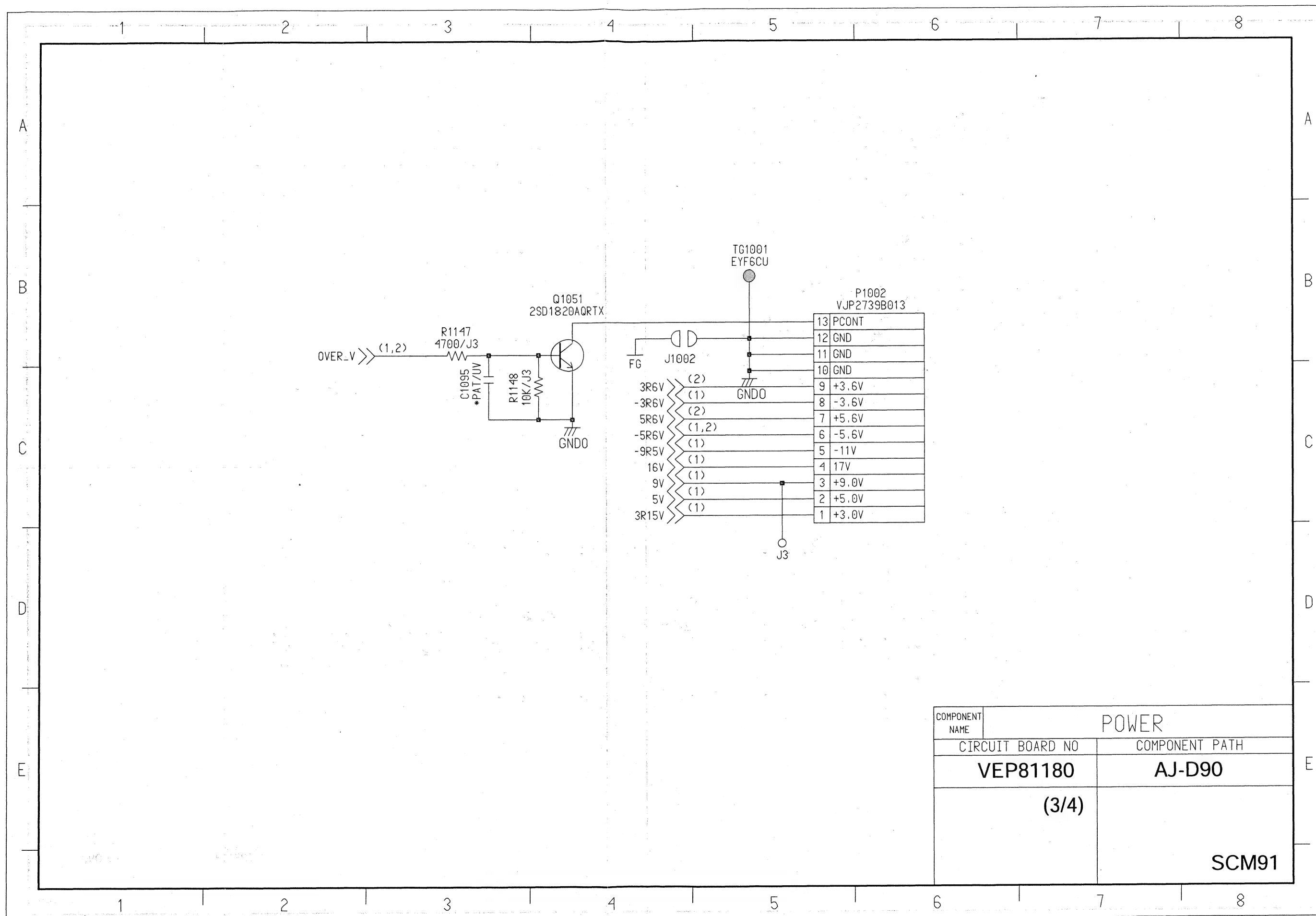


COMPONENT NAME	FRP_DELAY	
CIRCUIT BOARD NO	COMPONENT PATH	
VDP80A91	AJ-D90	
(1/1)		
	SCM88	





COMPONENT NAME	POWER
CIRCUIT BOARD NO	COMPONENT PATH
VEP81180	AJ-D90
(2/4)	
SCM90	

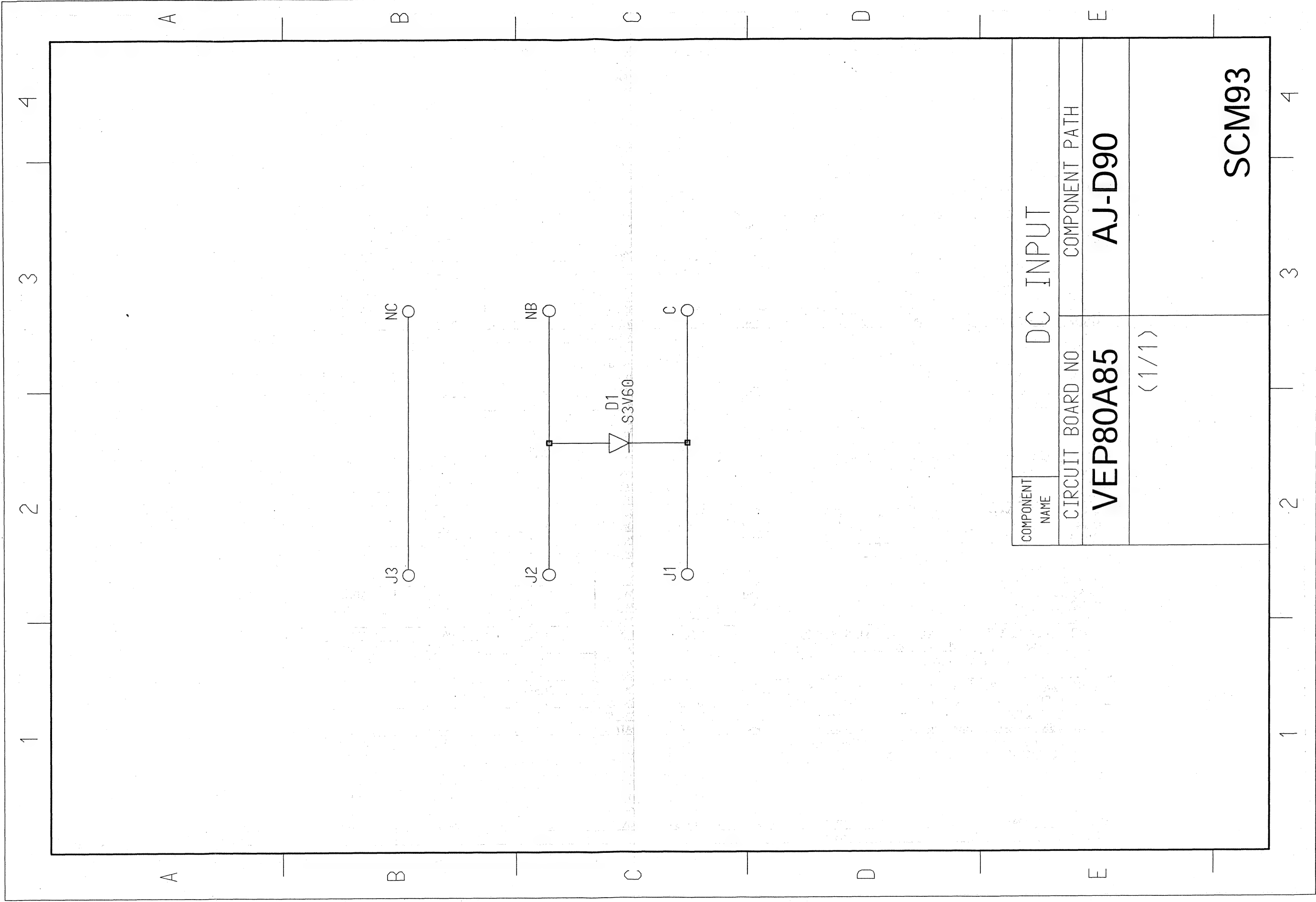


COMPONENT NAME	POWER	
	CIRCUIT BOARD NO	COMPONENT PATH
	VEP81180	AJ-D90
	(3/4)	
		SCM91

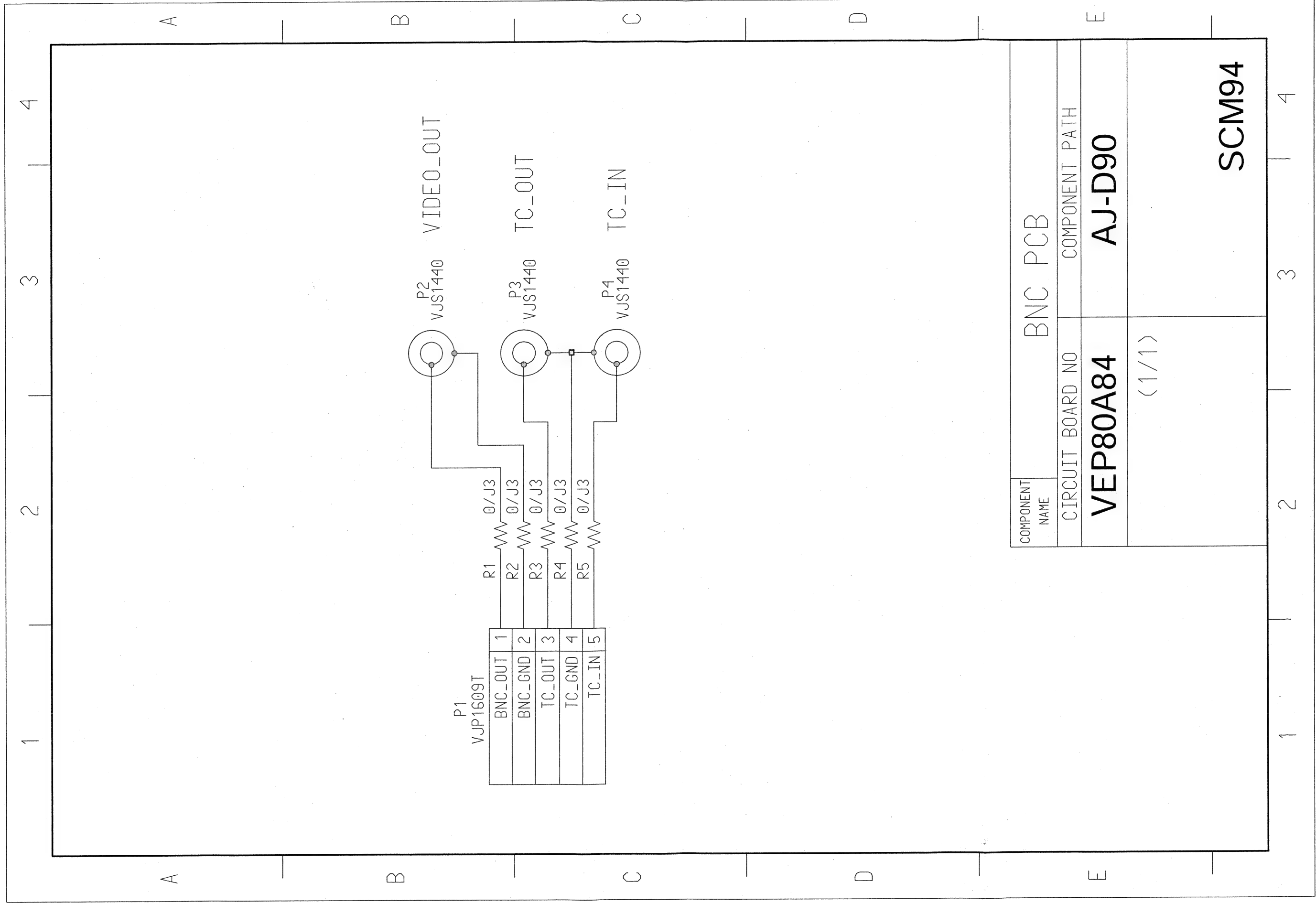
SCM92

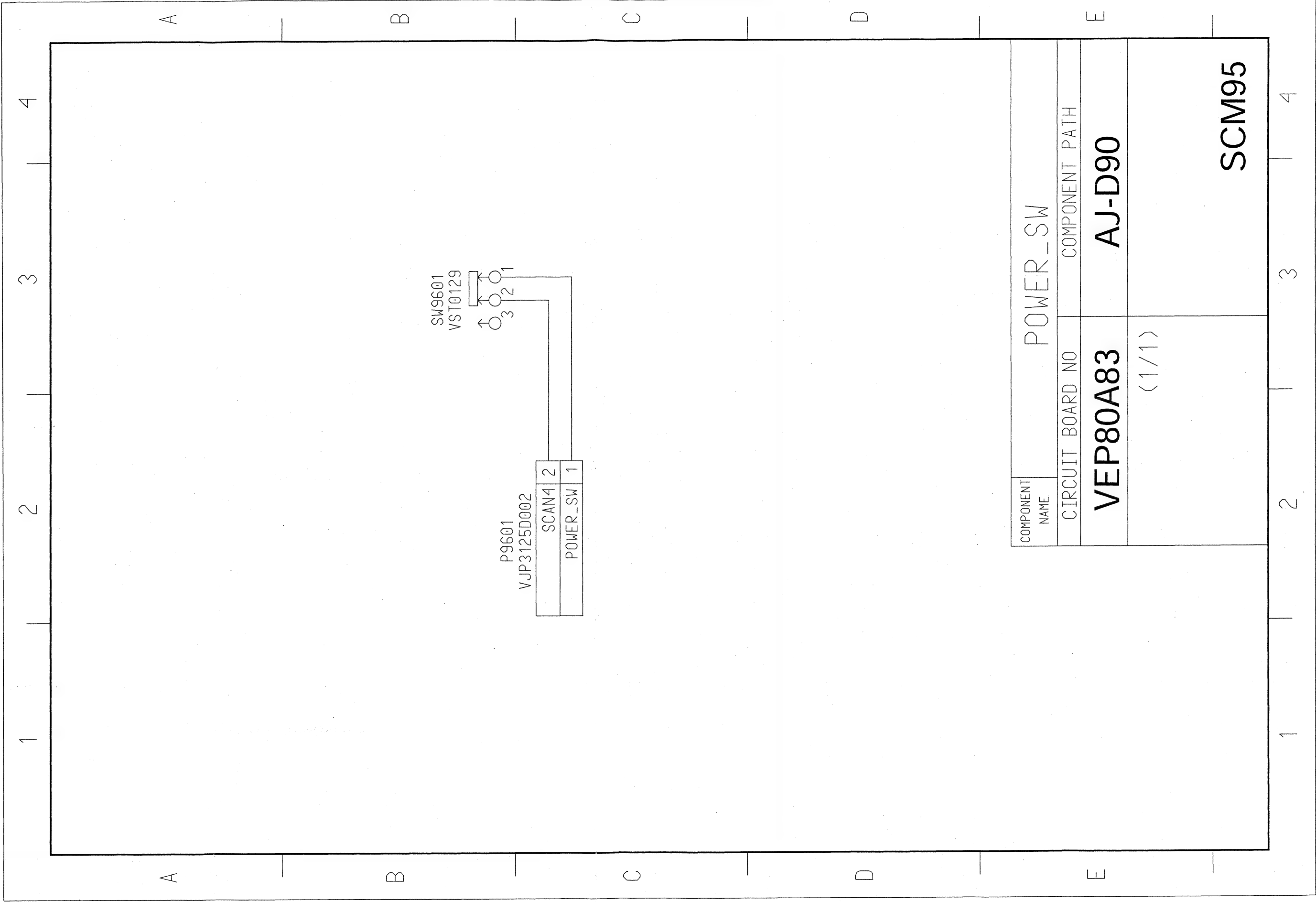
\$REF\$	AJ-D810	AJ-D900W	AJ-PD901W	AJ-D90	\$REF\$	AJ-D810	AJ-D900W	AJ-PD901W	AJ-D90
C1016	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	QR1016	*PAT	*PAT	*PAT	*PAT
C1020	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	QR1019	*PAT	*PAT	*PAT	*PAT
C1025	680P/UV	680P/UV	680P/UV	*PAT/UV	R1018	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1033	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1022	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1035	VCEA1DAP680	VCEA1DAP680	VCEA1DAP680	*PAT	R1027	10K/J3	10K/J3	10K/J3	*PAT/J3
C1036	100P/UV	100P/UV	100P/UV	*PAT/UV	R1028	91K/RE7	91K/RE7	91K/RE7	*PAT/RE7
C1037	0.033/UBN	0.033/UBN	0.033/UBN	*PAT/UBN	R1029	6200/RE7	6200/RE7	6200/RE7	*PAT/RE7
C1038	0.033/UBN	0.033/UBN	0.033/UBN	*PAT/UBN	R1036	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1039	330P/UV	330P/UV	330P/UV	*PAT/UV	R1037	3300/J3	3300/J3	3300/J3	*PAT/J3
C1040	ECA1EFQ221L	ECA1EFQ221L	ECA1EFQ221L	*PAT	R1038	56K/J3	56K/J3	56K/J3	*PAT/J3
C1041	ECA1EFQ221L	ECA1EFQ221L	ECA1EFQ221L	*PAT	R1039	33K/J3	33K/J3	33K/J3	*PAT/J3
C1042	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1040	3300/J3	3300/J3	3300/J3	*PAT/J3
C1043	VCEA1CAP101	VCEA1CAP101	VCEA1CAP101	*PAT	R1041	33/J3	33/J3	33/J3	*PAT/J3
C1044	EEUFA1C471L	EEUFA1C471L	EEUFA1C471L	*PAT	R1042	4700/J8	4700/J8	4700/J8	*PAT/J3
C1046	*PAT/UVV	*PAT/UVV	*PAT/UVV	*PAT/UVV	R1043	100K/J3	100K/J3	100K/J3	*PAT/J3
C1061	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1044	120/J3	120/J3	120/J3	*PAT/J3
C1062	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1045	68/J3	68/J3	68/J3	*PAT/J3
C1066	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1046	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1081	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1047	68/J3	68/J3	68/J3	*PAT/J3
C1082	VCEA0JAP151	VCEA0JAP151	VCEA0JAP151	*PAT	R1065	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1083	VCEA1AAP330	VCEA1AAP330	VCEA1AAP330	*PAT	R1066	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1084	*PAT/UBV	*PAT/UBV	*PAT/UBV	*PAT/UBV	R1070	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
C1091	0.01/UBV	0.01/UBV	0.01/UBV	*PAT/UBV	R1078	*PAT/J3	*PAT/J3	*PAT/J3	0/J3
C1095	*PAT/UV	*PAT/UV	*PAT/UV	*PAT/UV	R1079	0/J6	0/J6	*PAT/J6	*PAT/J6
D1006	SFPB-76V	SFPB-76V	SFPB-76V	*PAT	R1080	*PAT/J6	*PAT/J6	0/J6	*PAT/J6
D1007	MA739-TX	MA739-TX	MA739-TX	*PAT	R1081	*PAT/J6	0/J6	0/J6	*PAT/J6
D1008	MA8068-MHTX	MA8068-MHTX	MA8068-MHTX	*PAT	R1082	0/J6	*PAT/J6	*PAT/J6	*PAT/J6
D1009	MA8068-MHTX	MA8068-MHTX	MA8068-MHTX	*PAT	R1085	68/J3	68/J3	68/J3	*PAT/J3
D1010	SFPB-76V	SFPB-76V	SFPB-76V	*PAT	R1086	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1011	MA8068-MHTX	MA8068-MHTX	MA8068-MHTX	*PAT	R1090	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1012	MA8068-MHTX	MA8068-MHTX	MA8068-MHTX	*PAT	R1109	33K/J3	33K/J3	33K/J3	*PAT/J3
D1013	MA8068-MHTX	MA8068-MHTX	MA8068-MHTX	*PAT	R1110	ERJL14KJ50MU	ERJL14KJ50MU	ERJL14KJ50MU	*PAT
D1014	MA8043-MHTX	MA8043-MHTX	MA8043-MHTX	*PAT	R1111	10/J3	10/J3	10/J3	*PAT/J3
D1017	NSQ03A04	NSQ03A04	NSQ03A04	*PAT	R1112	1000/J3	1000/J3	1000/J3	*PAT/J3
D1023	*PAT	*PAT	*PAT	*PAT	R1113	10K/J3	10K/J3	10K/J3	*PAT/J3
D1024	*PAT	*PAT	*PAT	*PAT	R1114	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1025	*PAT	*PAT	*PAT	*PAT	R1115	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1026	*PAT	*PAT	*PAT	*PAT	R1116	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1027	*PAT	*PAT	*PAT	*PAT	R1117	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1031	*PAT	*PAT	*PAT	*PAT	R1118	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
D1033	*PAT	*PAT	*PAT	*PAT	R1119	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
J1002	*PAT	*PAT	*PAT	*PAT	R1120	1000/J3	1000/J3	1000/J3	*PAT/J3
L1012	VLQ0441K1R0	VLQ0441K1R0	VLQ0441K1R0	*PAT	R1121	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
L1013	VLQ0613-100	VLQ0613-100	VLQ0613-100	*PAT	R1122	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
L1014	VLQ0613-100	VLQ0613-100	VLQ0613-100	*PAT	R1123	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
L1023	VLQ0417	VLQ0417	VLQ0417	*PAT	R1124	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
Q1010	2SB1219AQRTX	2SB1219AQRTX	2SB1219AQRTX	*PAT	R1137	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
Q1011	2SD1820AQRTX	2SD1820AQRTX	2SD1820AQRTX	*PAT	R1138	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
Q1012	2SB1219AQRTX	2SB1219AQRTX	2SB1219AQRTX	*PAT	R1145	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
Q1013	2SK1748-Z-T1	2SK1748-Z-T1	2SK1748-Z-T1	*PAT	R1146	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
Q1034	XN4401-TX	XN4401-TX	XN4401-TX	*PAT	R1149	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
Q1035	2SD1820AQRTX	2SD1820AQRTX	2SD1820AQRTX	*PAT	R1150	*PAT/J3	*PAT/J3	*PAT/J3	*PAT/J3
QR1005	UN5211-TX	UN5211-TX	UN5211-TX	*PAT	T1001	VTP05141	VTP05141	VTP05141	*PAT
QR1011	*PAT	*PAT	*PAT	*PAT	TP1016	EYF6CU	EYF6CU	EYF6CU	*PAT
QR1012	*PAT	*PAT	*PAT	*PAT	TP1136	EYF6CU	EYF6CU	EYF6CU	*PAT
QR1013	*PAT	*PAT	*PAT	*PAT	TP1195	EYF6CU	EYF6CU	EYF6CU	*PAT
QR1014	*PAT	*PAT	*PAT	*PAT	VR1016	2K/VR5	2K/VR5	2K/VR5	*PAT/VR5
QR1015	*PAT	*PAT	*PAT	*PAT					

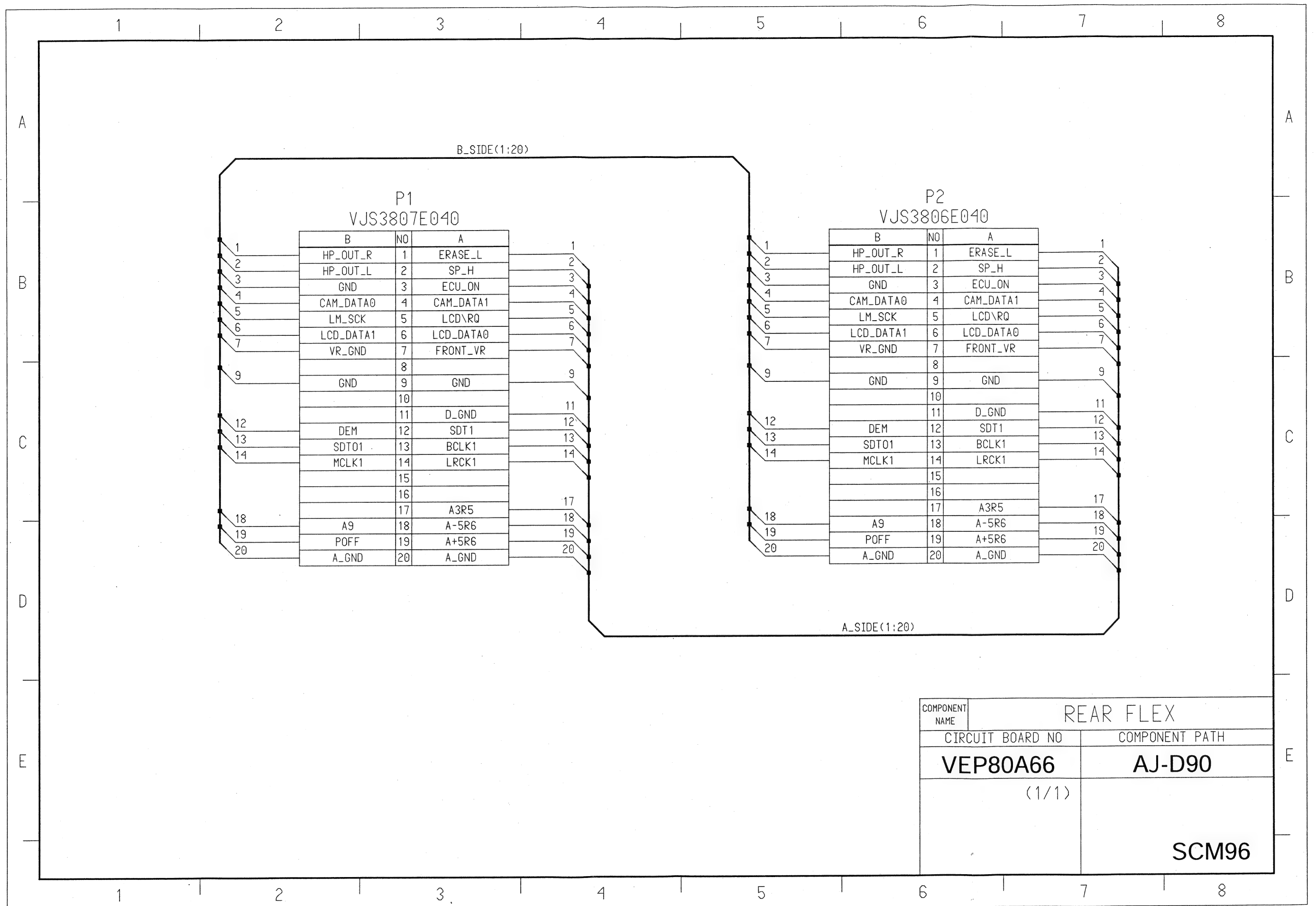
COMPONENT NAME	POWER	
CIRCUIT BOARD NO	VEP8810	
COMPONENT PATH	AJ-D90	
	(4/4)	
	SCM92	



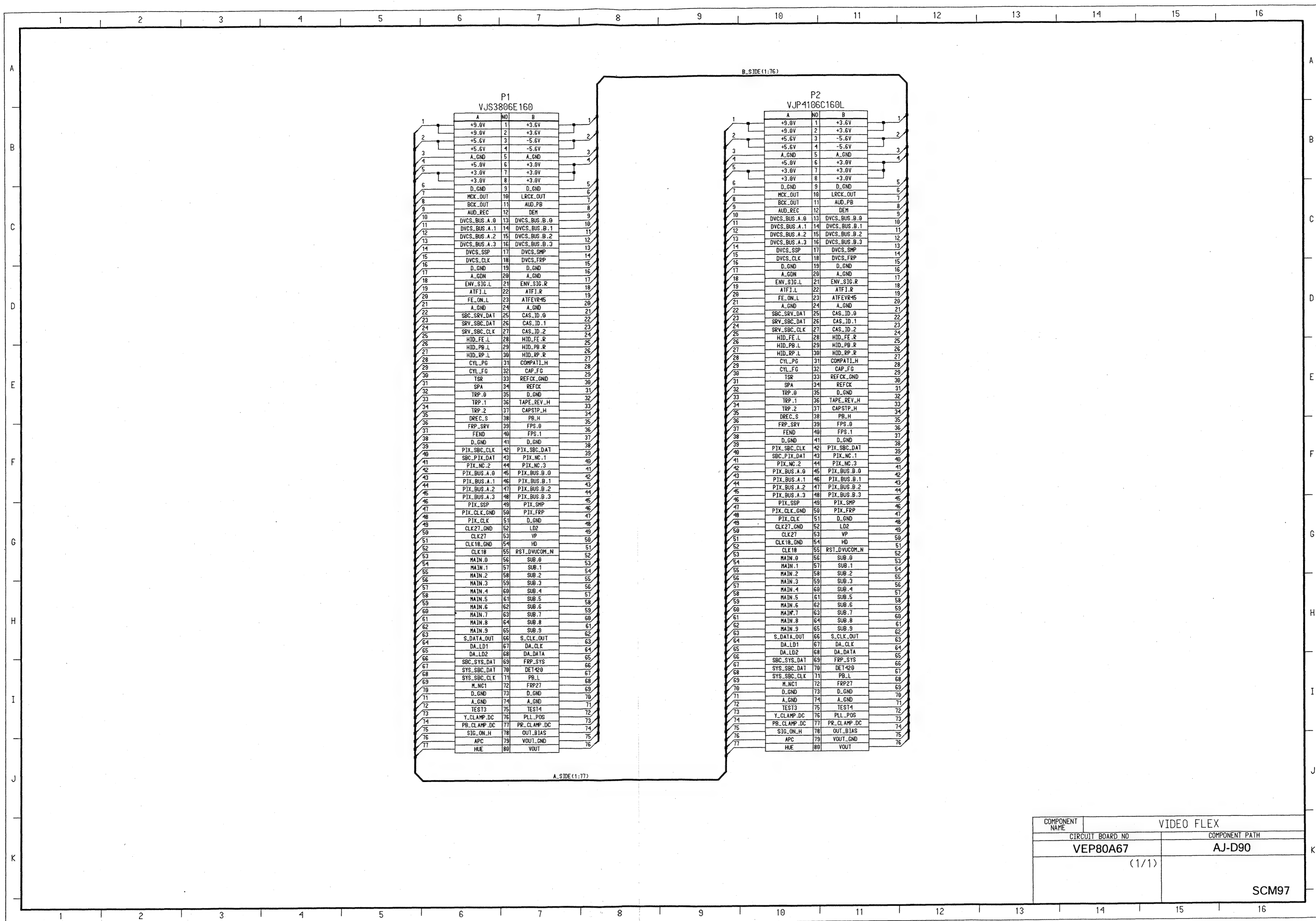
COMPONENT NAME	DC INPUT	
	CIRCUIT BOARD NO	COMPONENT PATH
VEP80A85	AJ-D90	
(1/1)		SCM93



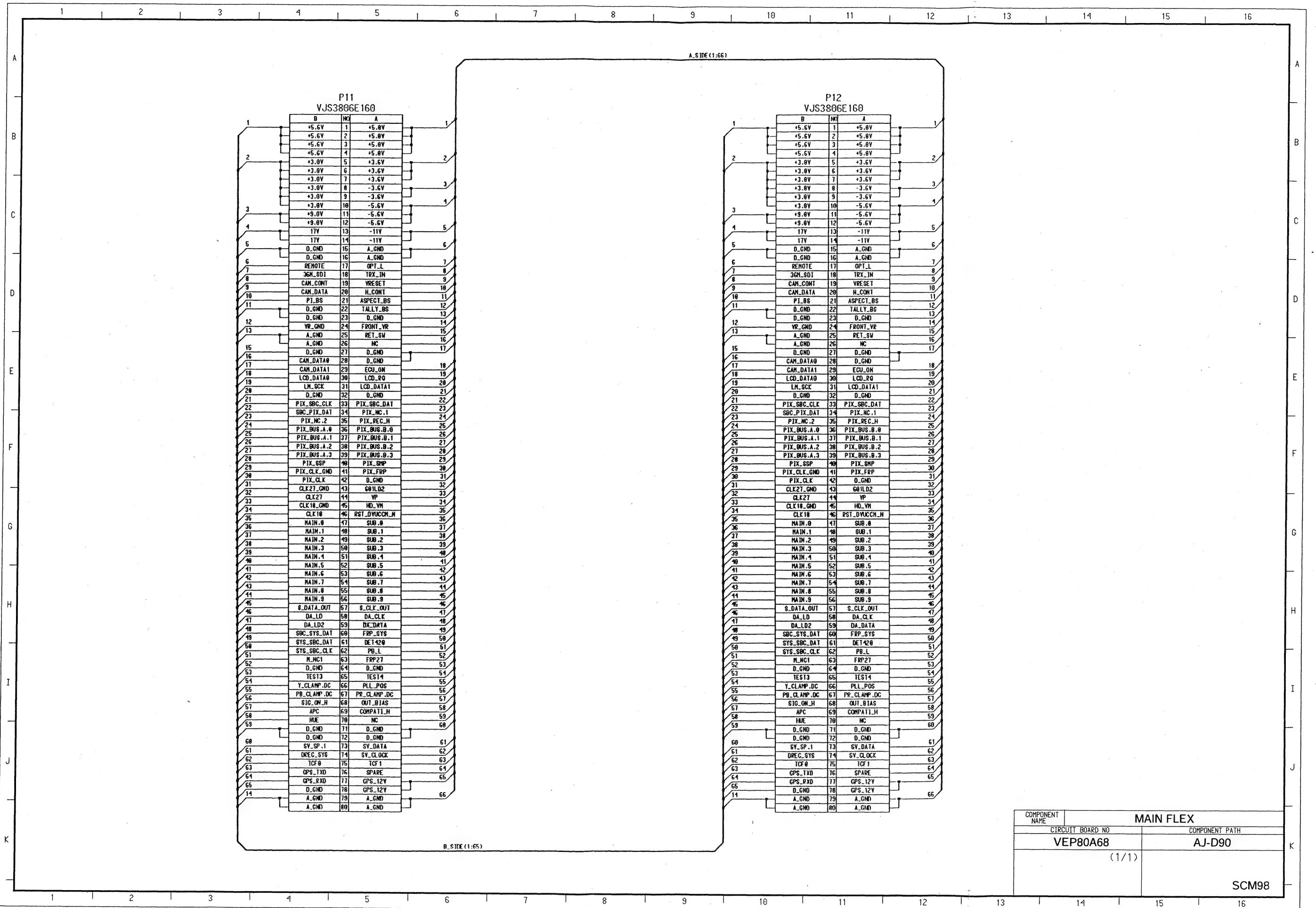




COMPONENT NAME	REAR FLEX	
	CIRCUIT BOARD NO	COMPONENT PATH
	VEP80A66	AJ-D90
	(1/1)	
		SCM96



COMPONENT NAME	VIDEO FLEX	
CIRCUIT BOARD NO	VEP80A67	
COMPONENT PATH	AJ-D90	
	(1/1)	
	SCM97	



COMPONENT NAME	MAIN FLEX	
CIRCUIT BOARD NO		COMPONENT PATH
VEP80A68		AJ-D90
(1/1)		
		SCM98

SECTION 3

CIRCUIT BOARD DIAGRAMS

Note:

1. Do not use the part number shown on the schematic diagram or P.C.Board layout for ordering.

The correct part number for ordering is shown in the Exploded Views/Parts List section.

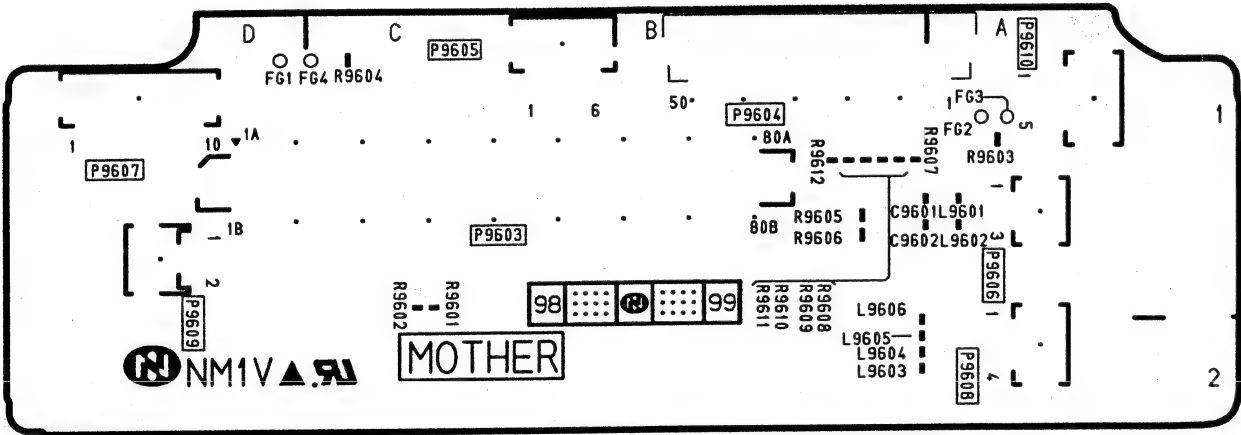
CONTENTS

MOTHER P.C.BOARD(VEP89132A)	PTN-1
INT CONNECT P.C.BOARD(VEP80A65A)	PTN-2
VIDEO MAIN P.C.BOARD(VEP83434E)	PTN-3
SERVO P.C.BOARD(VEP82215A)	PTN-4
VIDEO SUB P.C.BOARD(VEP83401A)	PTN-6
RF P.C.BOARD(VEP83379A)	PTN-7
SYSCON P.C.BOARD(VEP86272A)	PTN-8
CAM I/F P.C.BOARD(VEP89131A)	PTN-9
REAR JACK P.C.BOARD(VEP80A82B)	PTN-10
AUDIO LCD P.C.BOARD(VEP84317A)	PTN-11
LCD P.C.BOARD(VEP86271A)	PTN-12
VIDEO I/F P.C.BOARD(VEP03E41C)	PTN-13
VIDEO I/F SUB P.C.BOARD(VEP03E46C)	PTN-14
POWER P.C.BOARD(VEP81180D)	PTN-15
OPERATE P.C.BOARD(VEP86149C)	PTN-16
BACK UP BATTERY P.C.BOARD(VEP80A73A)	PTN-16
BNC P.C.BOARD(VEP80A84A)	PTN-16
HEAD PHONE P.C.BOARD(VEP00W08B)	PTN-16
FRP DELAY P.C.BOARD(VEP80A91A)	PTN-16
RESET PULSE P.C.BOARD(VEP80A92A)	PTN-16

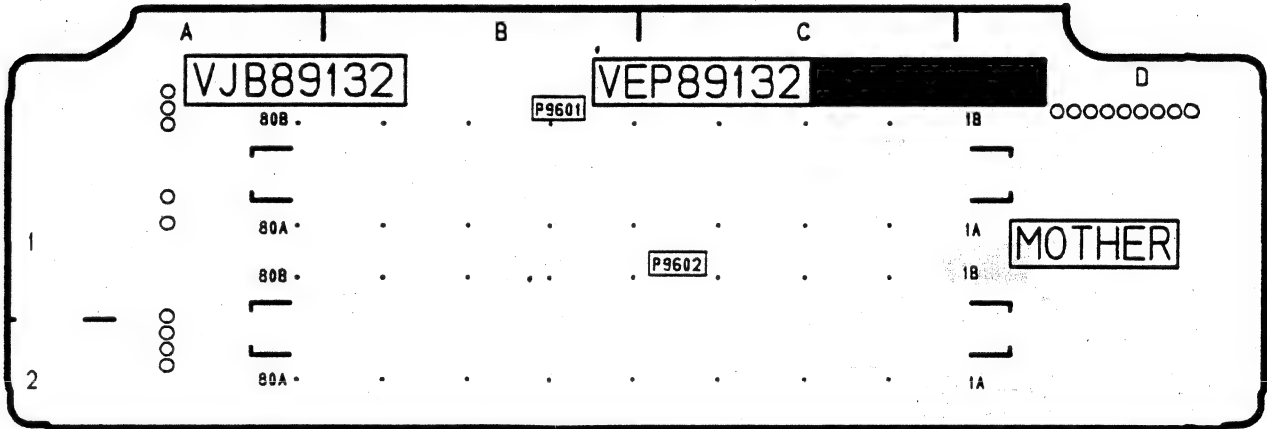
MOTHER P.C.BOARD(VEP89132A)

REF	LOC
P9603	C1
P9606	A1
P9607	D1
P9608	A2
P9609	D1
P9610	A1

REF	LOC
P9601	B1
P9602	B2



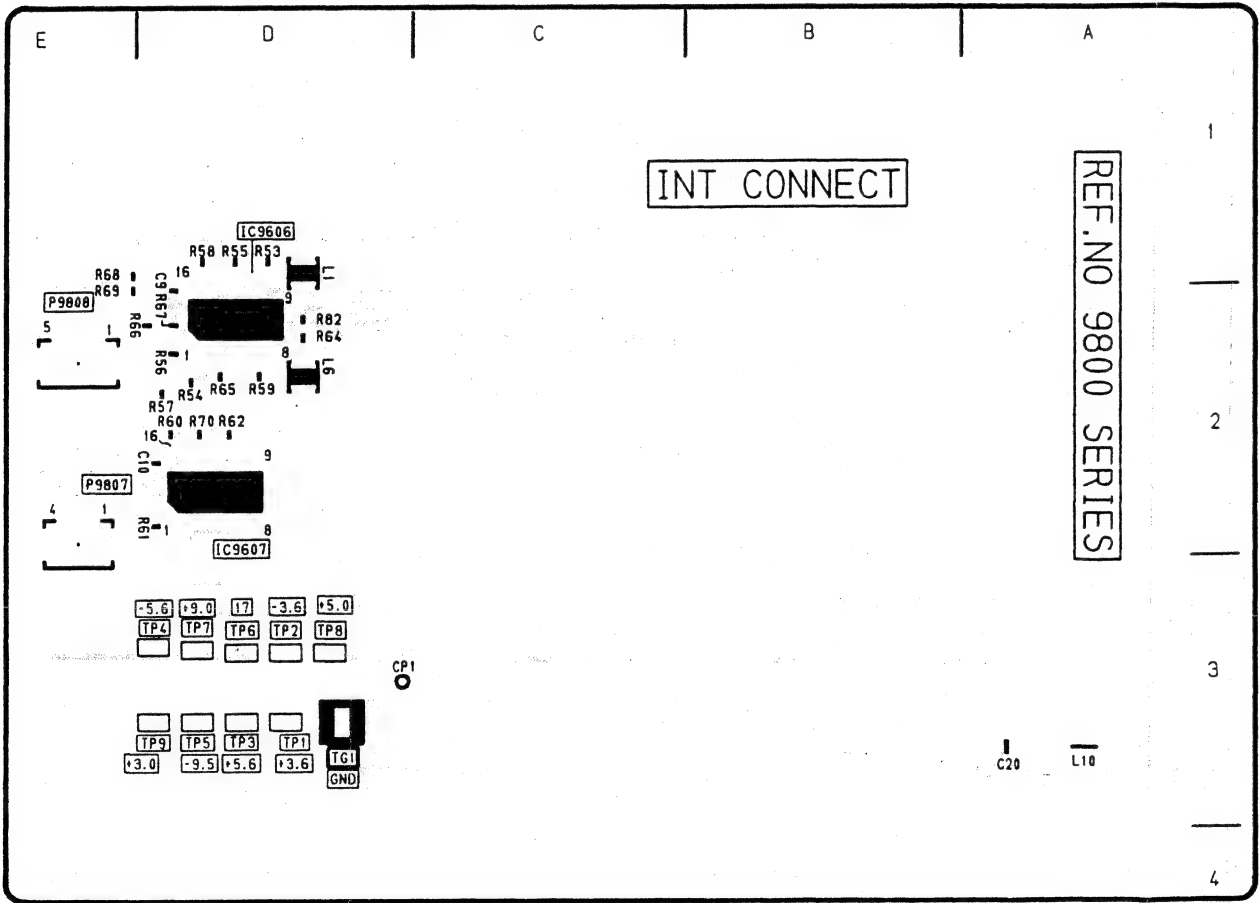
(FOILSIDE)



(COMPONENT SIDE)

INT CONNECT P.C.BOARD(VEP80A65A)

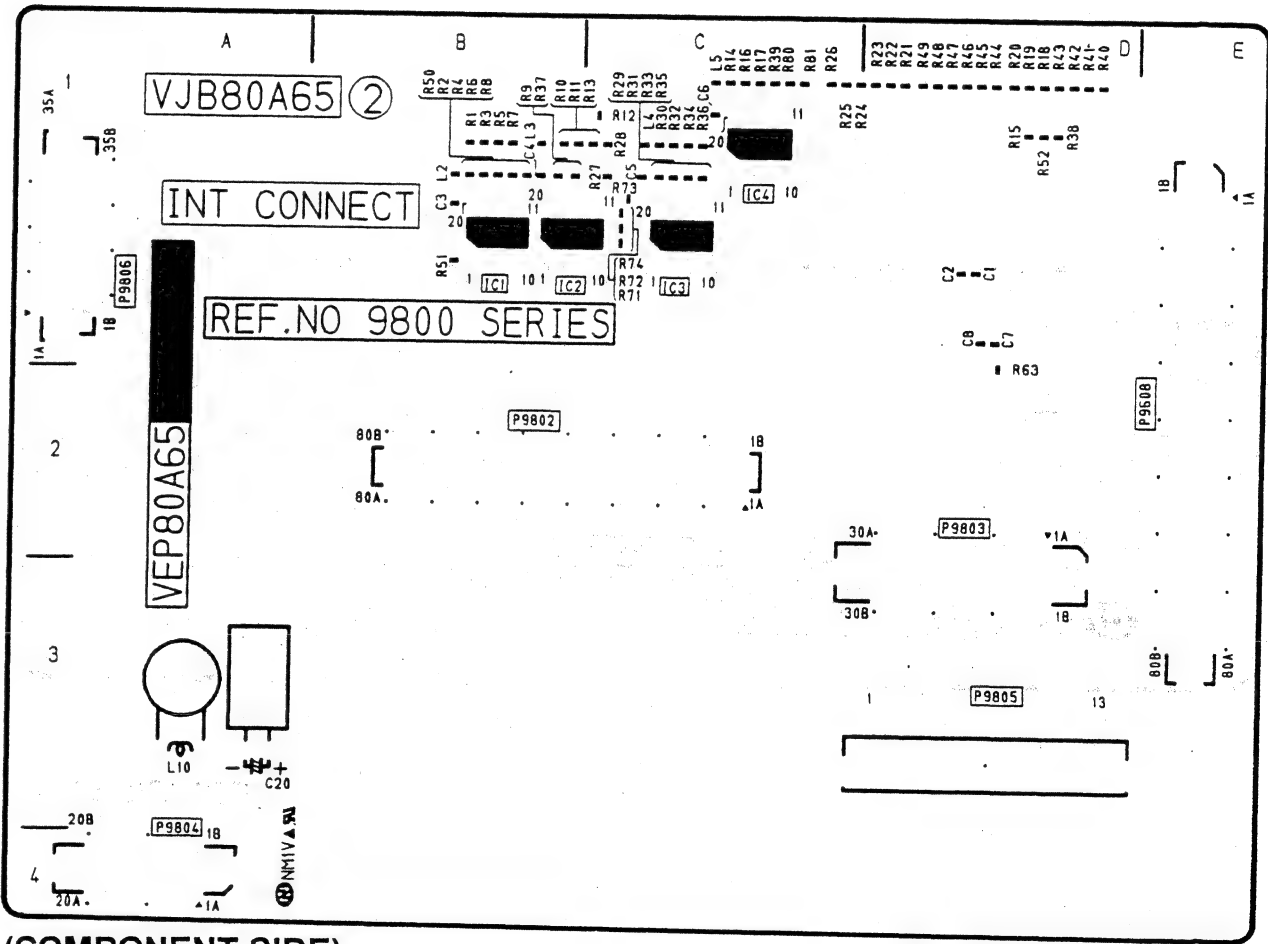
REF	LOC
IC9606	D1
IC9607	D2
P9807	E2
P9808	E2
TG9801	D3
TP9801	D3
TP9802	D3
TP9803	D3
TP9804	D3
TP9805	D3
TP9806	D3
TP9807	D3
TP9808	D3
TP9809	D3



(FOIL SIDE)

REF. NO. 9800 SERIES

REF	LOC
IC9801	B1
IC9802	B1
IC9803	C1
IC9804	C1
P9608	E2
P9802	B2
P9803	D3
P9804	A4
P9805	D3
P9806	A1

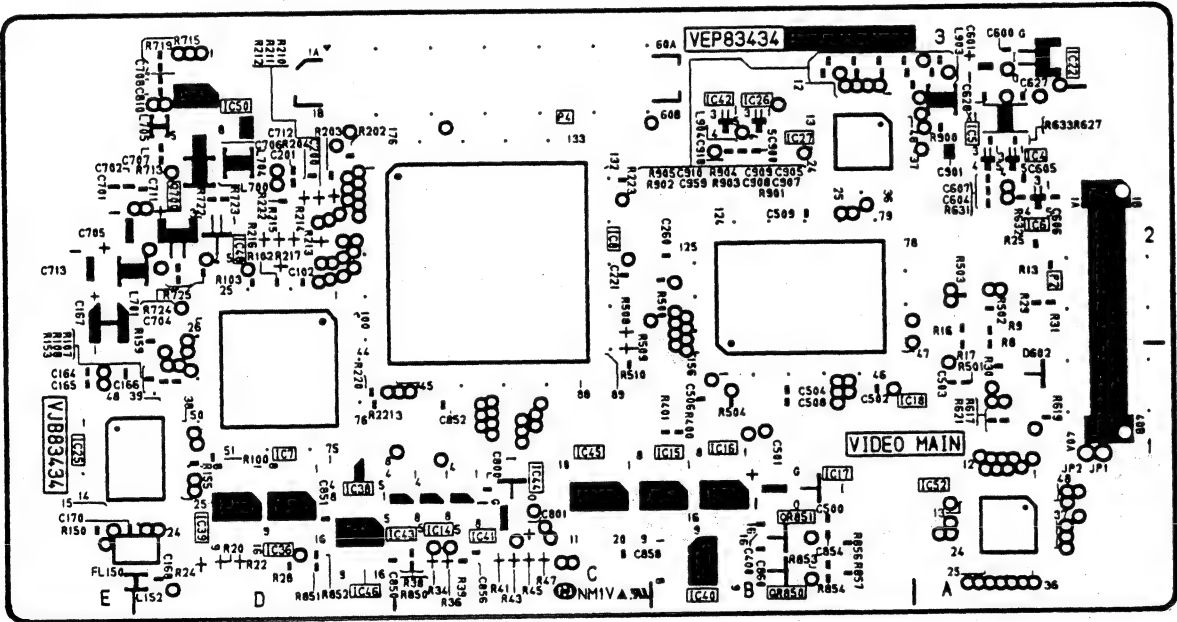


(COMPONENT SIDE)

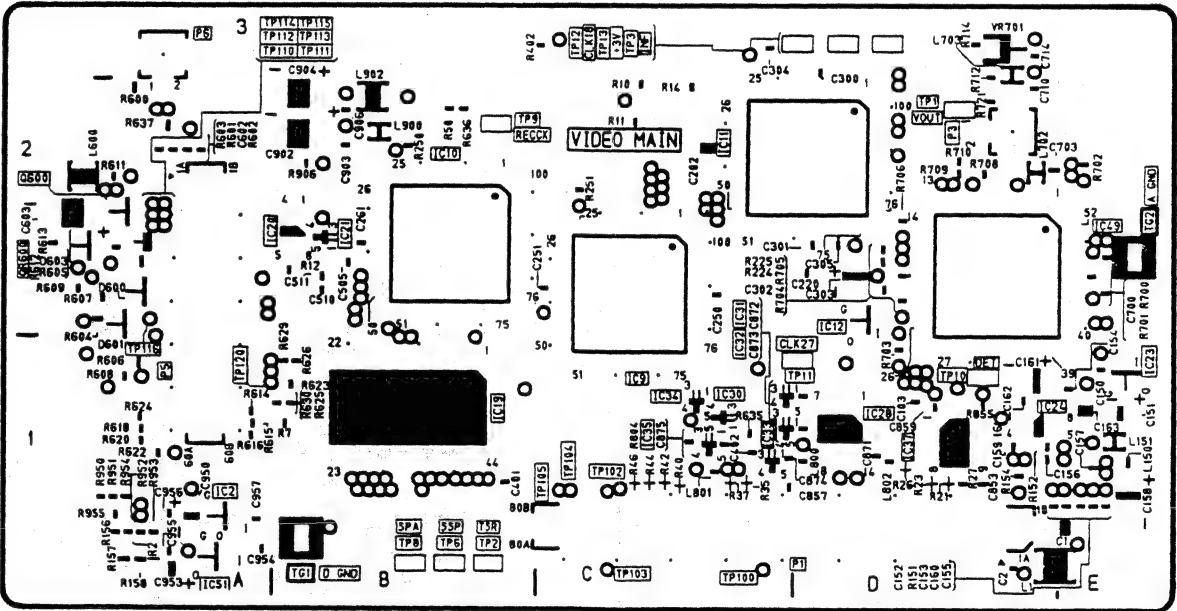
VIDEO MAIN P.C.BOARD(VEP83434E)

REF	LOC	REF	LOC	REF	LOC
IC2	E1	P1	E1	TP103	E1
IC9	E2	P3	E2	TP104	E1
IC10	E2	P5	E2	TP105	E1
IC11	E2	P6	E3	TP110	E2
IC12	E2	Q600	E2	TP111	E2
IC19	E1	QR600	E2	TP112	E2
IC20	E2	TG1	E1	TP113	E2
IC21	E2	TG2	E2	TP114	E2
IC23	E1	TP1	E2	TP115	E2
IC24	E1	TP2	E1	TP116	E2
IC28	E1	TP3	E3	TP120	E1
IC30	E1	TP6	E1	VR701	E3
IC31	E1	TP8	E1		
IC32	E1	TP9	E2		
IC33	E1	TP10	E1		
IC34	E1	TP11	E1		
IC35	E1	TP12	E3		
IC37	E1	TP13	E3		
IC49	E2	TP100	E1		
IC51	E1	TP102	E1		

REF	LOC	REF	LOC
IC4	A2	IC43	C1
IC5	A2	IC44	C1
IC6	A2	IC45	C1
IC7	D1	IC46	D1
IC8	C2	IC48	D2
IC14	C1	IC50	D3
IC15	B1	IC52	A1
IC16	B1	P2	A2
IC17	B1	P4	C3
IC18	B2	Q700	D2
IC22	A3	QR850	B1
IC25	D1	QR851	B1
IC26	B2		
IC27	B2		
IC36	D1		
IC38	D1		
IC39	D1		
IC40	B1		
IC41	C1		
IC42	B2		



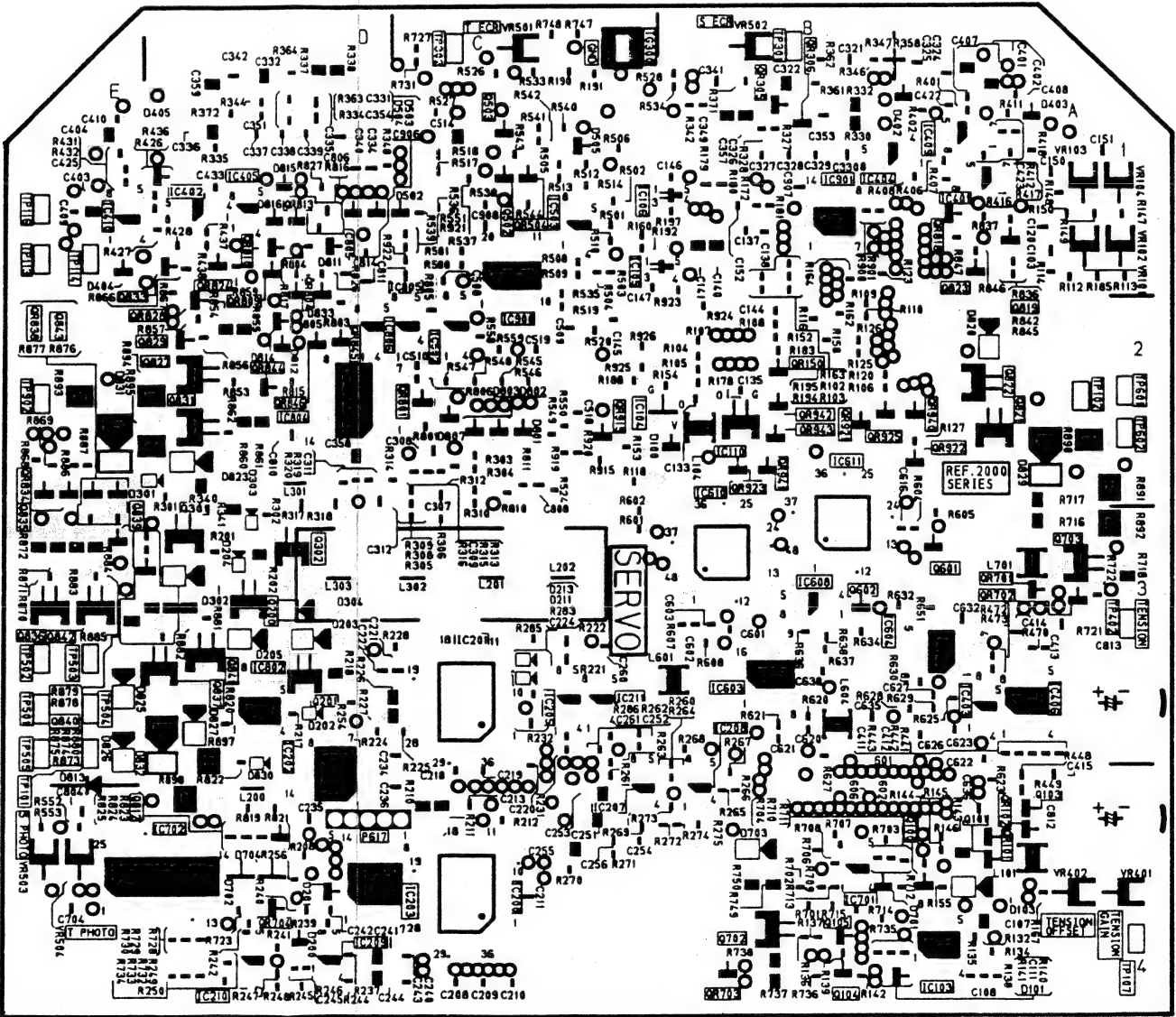
(FOIL SIDE)



(COMPONENT SIDE)

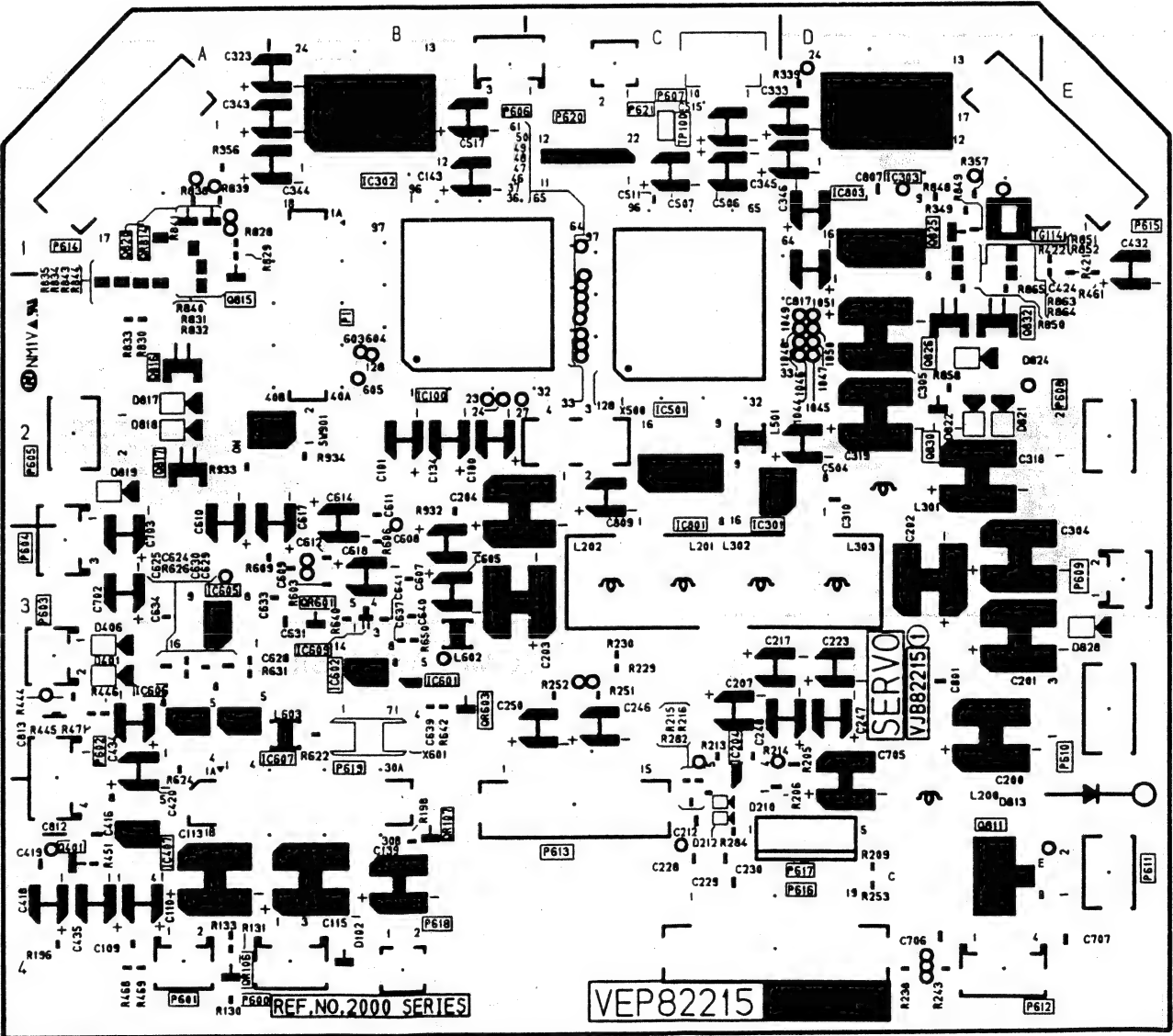
SERVO P.C.BOARD(VEP82215A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC103	A4	IC405	D1	P617	B4	Q822	A2	QR504	C1	QR921	B2	TP502	E3
IC104	B2	IC406	A3	Q100	A4	Q823	A2	QR701	A3	QR922	A2	TP503	E3
IC105	B2	IC409	A1	Q101	A4	Q827	D2	QR702	A3	QR923	B2	TP504	E3
IC106	B1	IC410	E1	Q103	A4	Q829	D2	QR703	B4	QR925	B2	TP505	E3
IC110	B2	IC502	C2	Q104	B4	Q831	D2	QR704	D4	QR940	A2	TP601	A2
IC200	C4	IC503	C1	Q105	B4	Q833	D2	QR801	C2	QR941	B2	TP602	A2
IC201	C3	IC603	B3	Q200	D3	Q835	E2	QR804	D2	QR942	B2	TP902	E2
IC202	D4	IC604	A3	Q201	D3	Q836	E3	QR809	D2	QR943	B2	VR101	A1
IC203	D4	IC608	B3	Q301	D3	Q837	D3	QR810	D1	TG300	C1	VR102	A1
IC205	C3	IC610	B3	Q302	D3	Q839	E3	QR813	D1	TP101	E3	VR103	A1
IC207	C4	IC611	B3	Q502	C1	Q840	D3	QR818	A1	TP102	A2	VR104	A1
IC208	B4	IC701	B4	Q503	C1	Q841	D3	QR824	D2	TP107	A4	VR401	A4
IC209	D4	IC702	D4	Q601	A3	Q842	E3	QR828	D2	TP113	E1	VR402	A4
IC210	D4	IC802	D3	Q602	B3	Q843	E2	QR834	E2	TP114	E1	VR501	C1
IC211	C3	IC804	D2	Q702	B4	QR101	A4	QR838	E2	TP116	E1	VR502	B1
IC401	A1	IC805	C2	Q703	A3	QR102	A4	QR844	D2	TP301	B1	VR503	E4
IC402	D1	IC806	D2	Q812	D4	QR150	B2	QR845	D2	TP302	C1	VR504	E4
IC403	A3	IC900	C2	Q819	A1	QR305	B1	QR846	D2	TP402	A3		
IC404	B1	IC901	B1	Q821	A2	QR306	B1	QR915	C2	TP501	E3		



(FOIL SIDE)

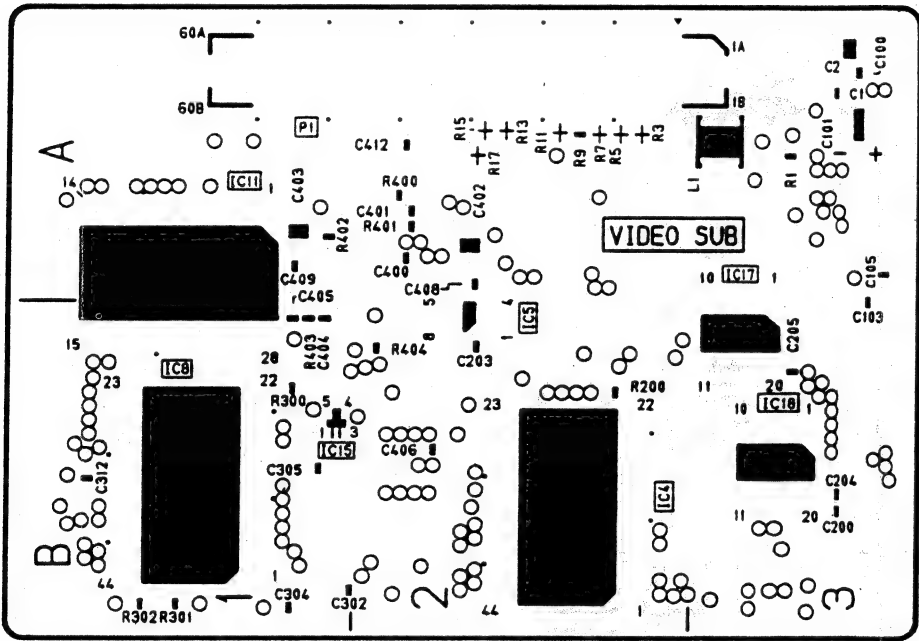
REF	LOC	REF	LOC	REF	LOC
IC100	B2	P604	A3	Q816	A2
IC204	C4	P605	A2	Q817	A2
IC301	C2	P606	B1	Q820	A1
IC302	B1	P607	C1	Q825	D1
IC303	D1	P608	E2	Q826	D2
IC407	A4	P609	E3	Q830	D2
IC501	C2	P610	E3	Q832	D2
IC601	B3	P611	E4	QR106	A4
IC602	B3	P612	D4	QR107	B4
IC605	A3	P613	C4	QR601	B3
IC606	A3	P614	A1	QR603	B3
IC607	A3	P615	E1	QR814	A1
IC609	B3	P616	C4	SW901	B2
IC801	C2	P618	B4	TG114	D1
IC803	D1	P619	B4	TP100	C1
P1	B2	P620	C1		
P600	B4	P621	C1		
P601	A4	Q401	A4		
P602	A4	Q811	D4		
P603	A3	Q815	A2		



(COMPONENT SIDE)

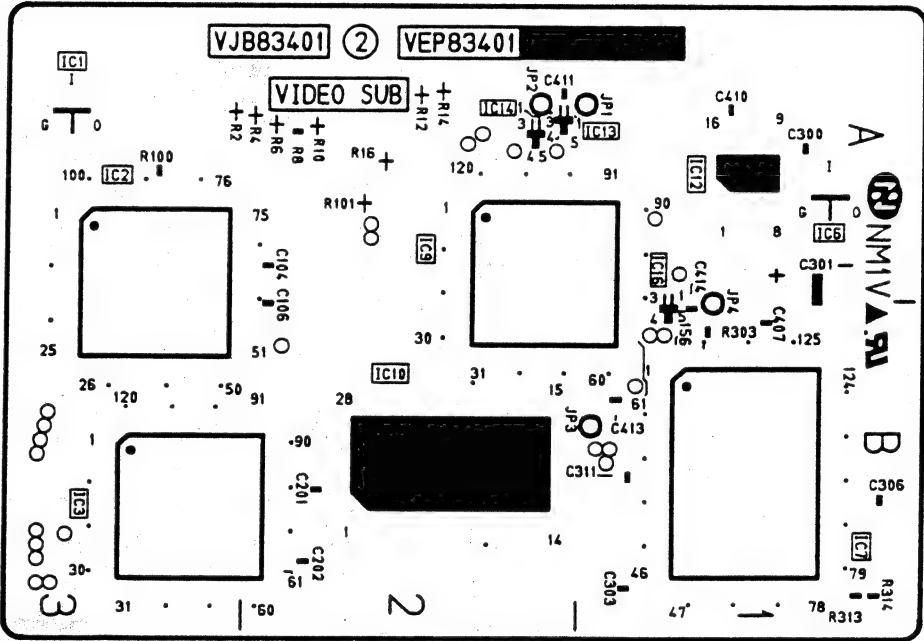
VIDEO SUB P.C.BOARD(VEP83401A)

REF	LOC
IC4	B2
IC5	B2
IC8	B1
IC11	A1
IC15	B1
IC17	B3
IC18	B3
P1	A2



(FOIL SIDE)

REF	LOC
IC1	A3
IC2	A3
IC3	B3
IC6	A1
IC7	B1
IC9	A2
IC10	B2
IC12	A1
IC13	A2
IC14	A2
IC16	A1

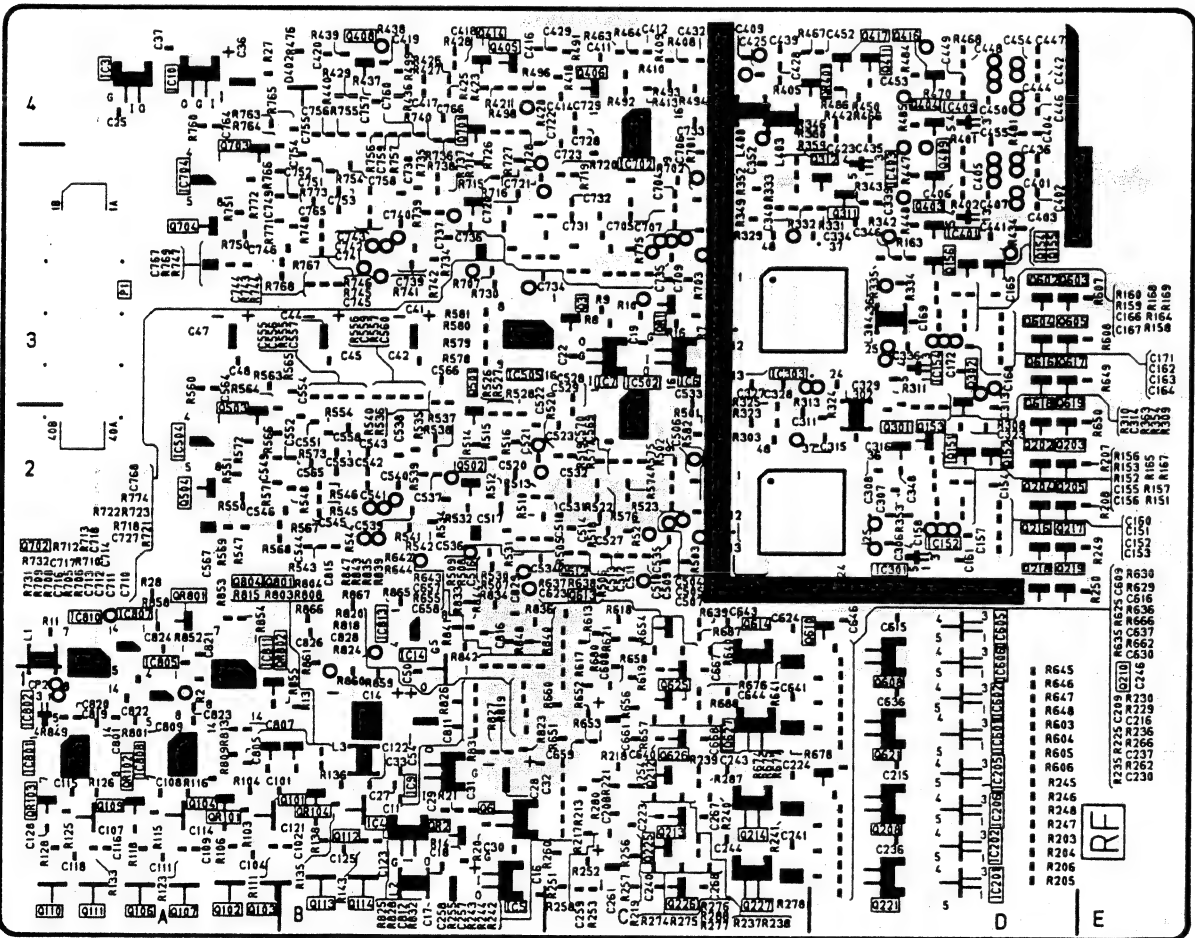


(COMPONENT SIDE)

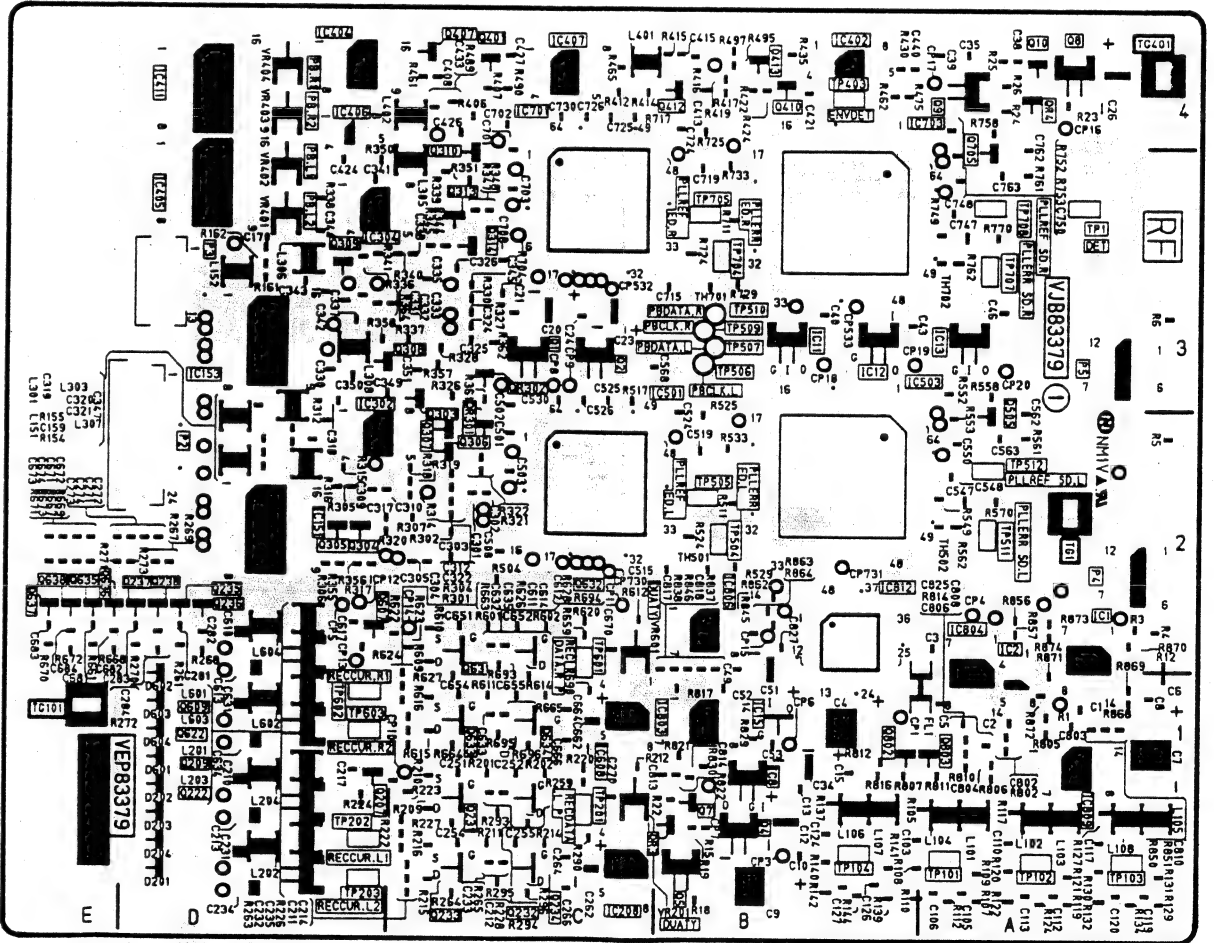
RF P.C.BOARD(VEP83379A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3	A4	IC504	A2	Q102	A1	Q205	D2	Q405	B4	Q614	C2	QR104	B1
IC4	B1	IC505	B3	Q103	B1	Q208	D1	Q406	C4	Q616	D3	QR401	B4
IC5	B1	IC601	D1	Q104	A1	Q210	D1	Q408	B4	Q617	D3	QR801	A2
IC6	C3	IC602	D1	Q106	A1	Q212	C1	Q409	D3	Q618	D2	QR802	A1
IC7	C3	IC605	D2	Q107	A1	Q213	C1	Q411	D4	Q619	D2		
IC9	B1	IC606	D2	Q109	A1	Q214	C1	Q414	B4	Q621	D1		
IC10	A4	IC702	C4	Q110	A1	Q216	D2	Q416	D4	Q625	C1		
IC14	B1	IC704	A3	Q111	A1	Q217	D2	Q417	D4	Q626	C1		
IC152	D2	IC801	A1	Q112	B1	Q218	D2	Q501	B2	Q627	C1		
IC154	D3	IC802	A1	Q113	B1	Q219	D2	Q502	B2	Q701	B4		
IC201	D1	IC805	A1	Q114	B1	Q221	D1	Q503	A2	Q702	B3		
IC202	D1	IC807	A2	Q151	D2	Q225	C1	Q504	A2	Q703	A3		
IC205	D1	IC808	A1	Q152	D2	Q226	C1	Q602	D3	Q704	A3		
IC206	D1	IC810	A2	Q153	D2	Q227	C1	Q603	D3	Q801	B1		
IC301	C2	IC811	A1	Q154	D3	Q301	D2	Q604	D3	Q804	A1		
IC303	C3	IC813	B2	Q155	D3	Q302	D3	Q605	D3	QR1	C3		
IC401	D3	P1	A3	Q156	D3	Q311	D3	Q608	D2	QR2	B1		
IC403	D3	Q3	C3	Q202	D2	Q312	D3	Q610	D2	QR101	A1		
IC409	D4	Q6	B1	Q203	D2	Q403	D3	Q612	C2	QR102	A1		
IC502	C2	Q101	A1	Q204	D2	Q404	D4	Q613	C1	QR103	A1		

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	A2	IC608	C1	Q207	D1	Q314	C3	Q803	A1	TP507	B3		
IC2	A1	IC701	C3	Q209	D1	Q401	C4	QR3	B1	TP509	B3		
IC8	B1	IC703	B3	Q222	D1	Q407	C4	QR4	A4	TP510	B3		
IC11	B3	IC803	B1	Q231	C1	Q410	B4	QR301	C2	TP511	A2		
IC12	B3	IC804	A1	Q232	C1	Q412	B4	QR302	C3	TP512	A2		
IC13	A3	IC806	B2	Q233	C1	Q413	B4	TG1	A2	TP601	C2		
IC15	B1	IC809	A1	Q234	C1	Q505	A2	TG101	E1	TP602	D1		
IC151	D2	IC812	B2	Q235	D2	Q607	D2	TG401	A4	TP603	D1		
IC153	D3	P2	D2	Q236	D2	Q609	D2	TP1	A3	TP704	B3		
IC208	C1	P3	D3	Q237	D2	Q622	D1	TP101	A1	TP705	B3		
IC302	D2	P4	A2	Q238	D2	Q631	C2	TP102	A1	TP707	A3		
IC304	D3	P5	A3	Q303	C3	Q632	C2	TP103	A1	TP708	A3		
IC402	B4	Q1	C3	Q304	D2	Q633	C1	TP104	B1	VR201	C1		
IC404	D4	Q2	C3	Q305	D2	Q634	C1	TP201	C1	VR401	D3		
IC405	D3	Q4	B1	Q306	C2	Q635	E2	TP202	D1	VR402	D3		
IC406	D4	Q5	B1	Q307	C2	Q636	D2	TP203	D1	VR403	D4		
IC407	C4	Q7	B1	Q308	C3	Q637	E2	TP403	B4	VR404	D4		
IC411	D4	Q8	A4	Q309	D3	Q638	E2	TP504	B2	VR601	C2		
IC501	C2	Q9	A4	Q310	C3	Q705	A3	TP505	B2				
IC503	B2	Q10	A4	Q313	C3	Q802	B1	TP506	B3				



(FOIL SIDE)

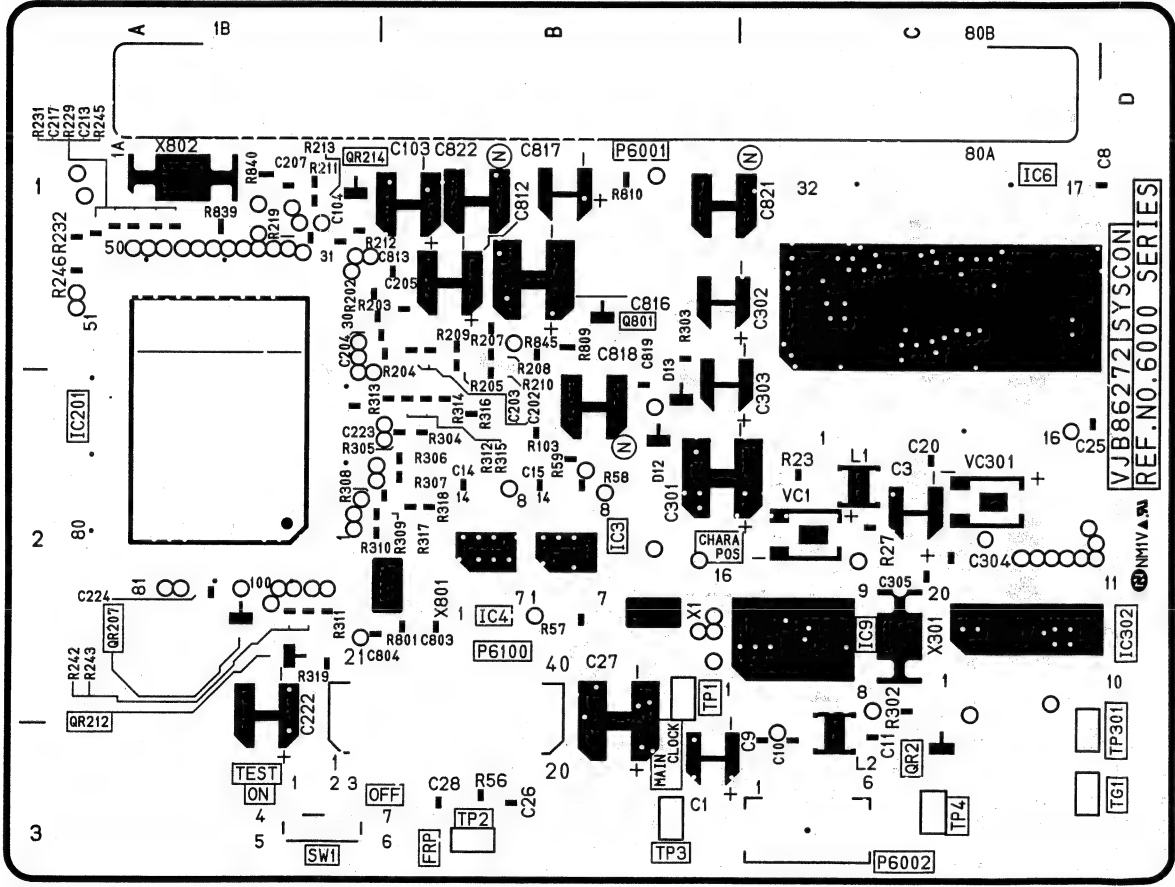


(COMPONENT SIDE)

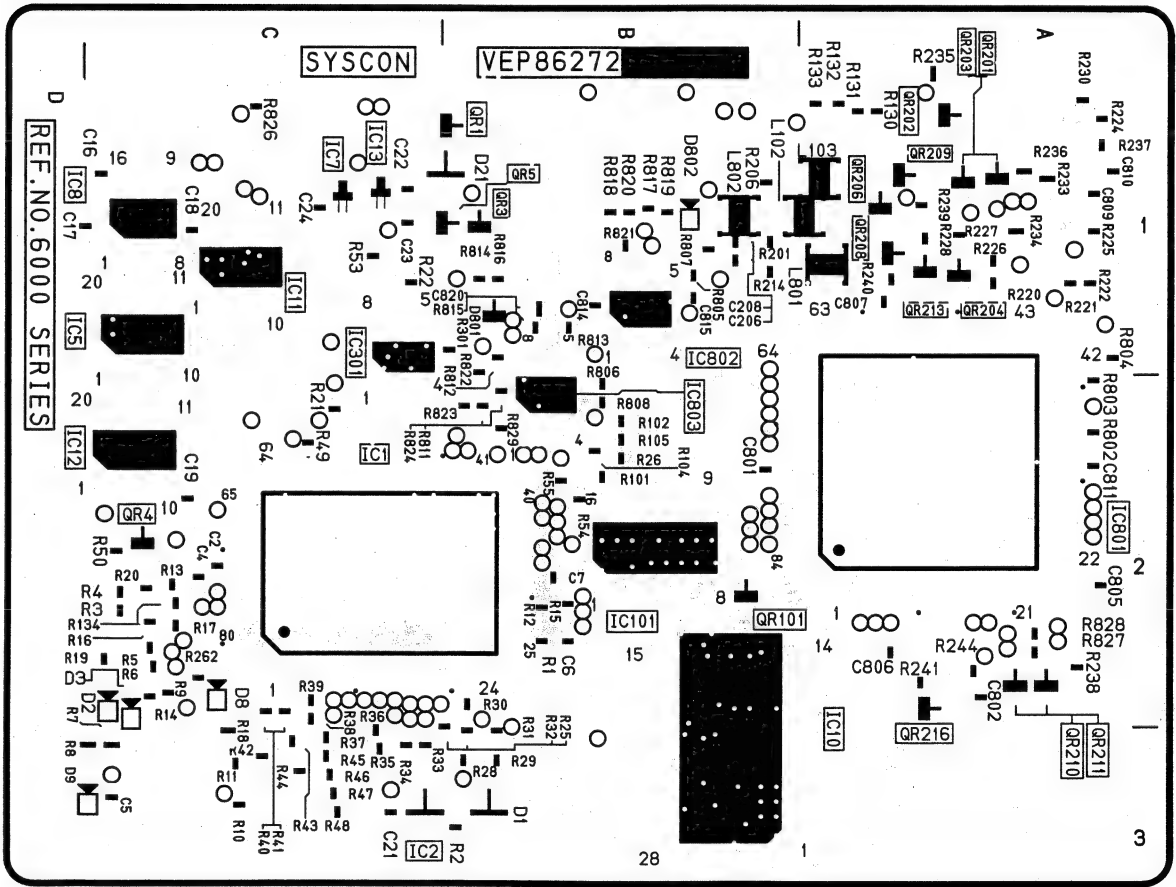
SYSCON P.C.BOARD(VEP86272A)

REF	LOC	REF	LOC
IC6003	B2	QR6212	A2
IC6004	B2	QR6214	A1
IC6009	C2	SW6001	A3
IC6201	A2	TG6001	C3
IC6302	C2	TP6001	B2
P6001	B1	TP6002	B3
P6002	C3	TP6003	B3
Q6801	B1	TP6004	C3
QR6002	C3	TP6301	C3
QR6207	A2	VC6001	C2
		VC6301	C2

REF	LOC	REF	LOC
IC6001	C2	QR6003	B1
IC6002	C3	QR6004	C2
IC6005	C1	QR6005	C1
IC6007	C1	QR6101	B2
IC6008	C1	QR6201	A1
IC6010	B3	QR6202	A1
IC6011	C1	QR6203	A1
IC6012	C2	QR6204	A1
IC6013	C1	QR6206	A1
IC6101	B2	QR6208	A1
IC6301	C1	QR6209	A1
IC6801	A2	QR6210	A2
IC6802	B1	QR6211	A2
IC6803	B2	QR6213	A1
QR6001	B1	QR6216	A2



(FOILSIDE)

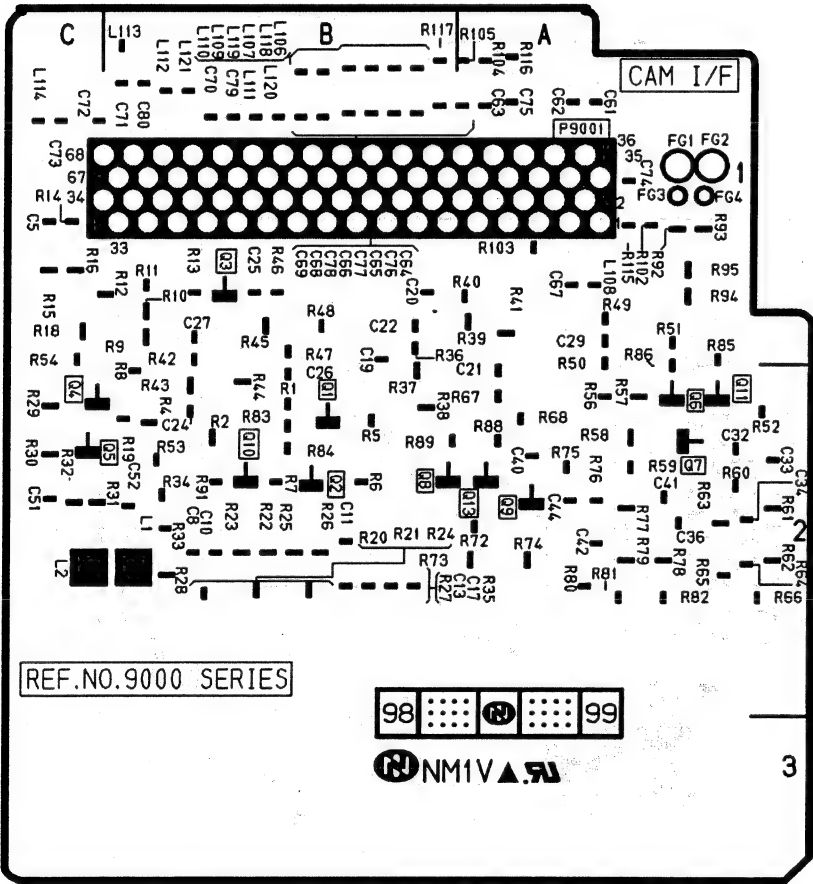


(COMPONENT SIDE)

CAM I/F P.C.BOARD(VEP89131A)

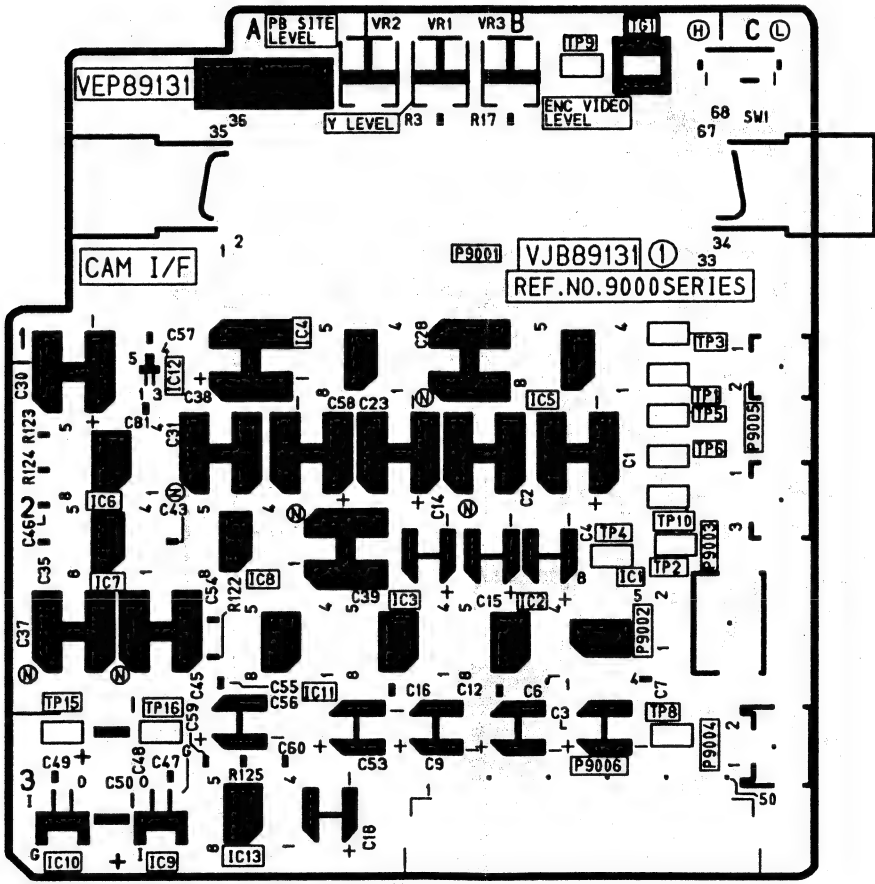
REF	LOC
Q9001	B2
Q9002	B2
Q9003	B1
Q9004	C2
Q9005	C2
Q9006	A2
Q9007	A2
Q9008	A2
Q9009	A2
Q9010	B2
Q9011	A2
Q9013	A2

REF	LOC	REF	LOC
IC9001	B2	TP9002	B2
IC9002	B2	TP9003	B1
IC9003	B2	TP9004	B2
IC9004	A2	TP9005	B2
IC9005	B2	TP9006	B2
IC9007	A2	TP9007	A3
IC9008	A2	TP9008	B3
IC9009	A2	TP9009	B1
IC9010	A2	TP9010	B2
P9001	B1	TP9011	A2
P9002	C2	TP9012	A2
P9003	C2	TP9013	A2
P9004	C3	TP9014	A3
P9005	C2	TP9015	A3
P9006	B3	TP9016	A3
P9007	A3	VR9001	B1
TG9001	B1	VR9002	B1
TP9001	B2	VR9003	B1



(FOILSIDE)

PTN9



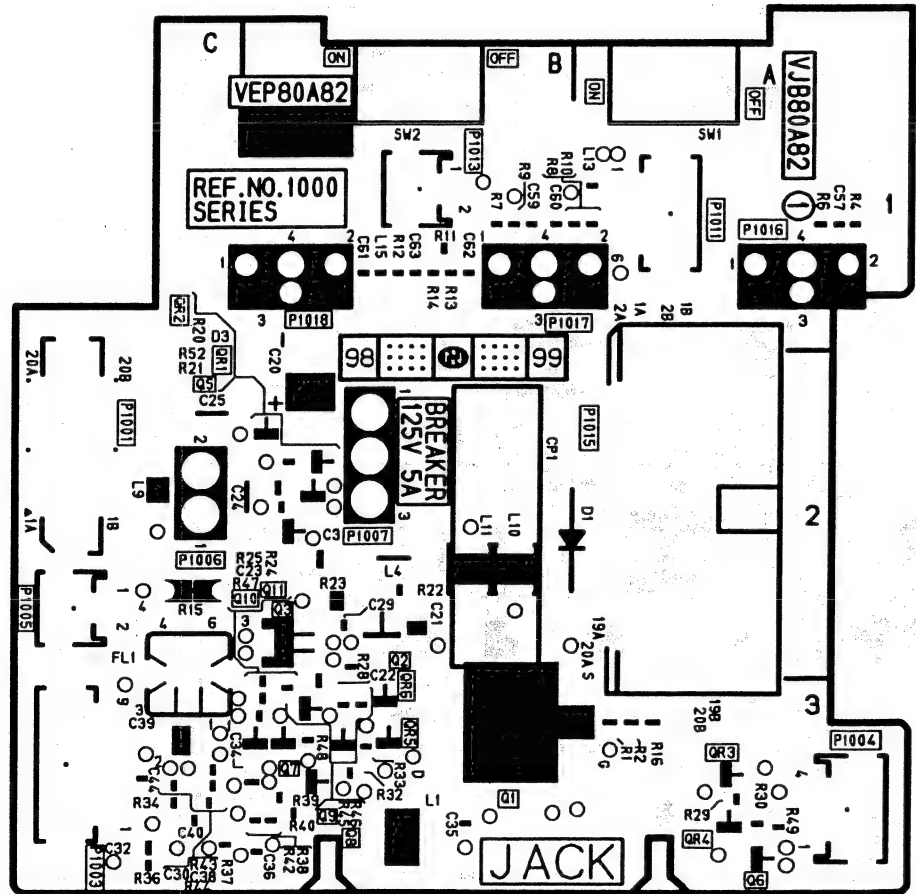
(COMPONENT SIDE)

PTN9

REAR JACK P.C.BOARD(VEP80A82B)

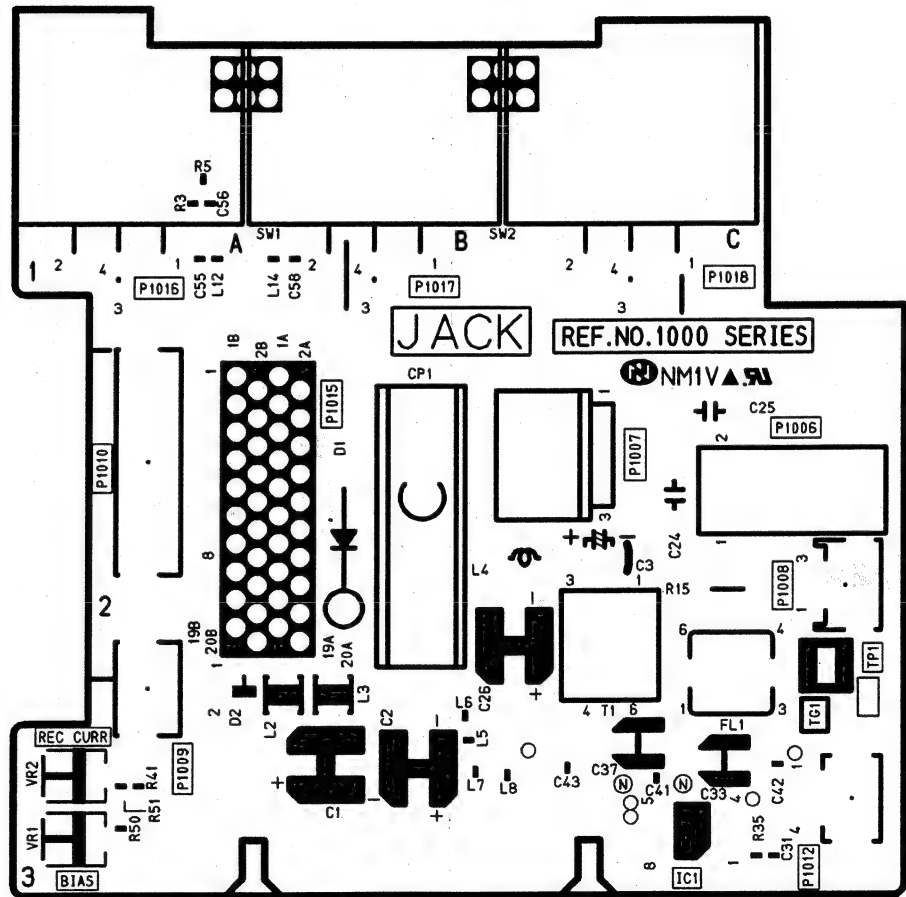
REF	LOC	REF	LOC
P1001	C2	Q1005	B2
P1003	C3	Q1006	A3
P1004	A3	Q1007	B3
P1005	C2	Q1008	B3
P1006	A2	Q1009	B3
P1007	B2	Q1010	B3
P1011	A1	Q1011	B3
P1013	B1	QR1001	B2
P1015	A2	QR1002	B2
P1016	C1	QR1003	A3
P1017	B1	QR1004	A3
P1018	A1	QR1005	B3
Q1001	B3	QR1006	B3
Q1002	B2	SW1001	A1
Q1003	B2	SW1002	B1

REF	LOC
IC1001	C3
P1008	C2
P1009	A3
P1010	A2
P1012	C3
TG1001	C2
VR1001	A3
VR1002	A3



(FOILSIDE)

PTN10



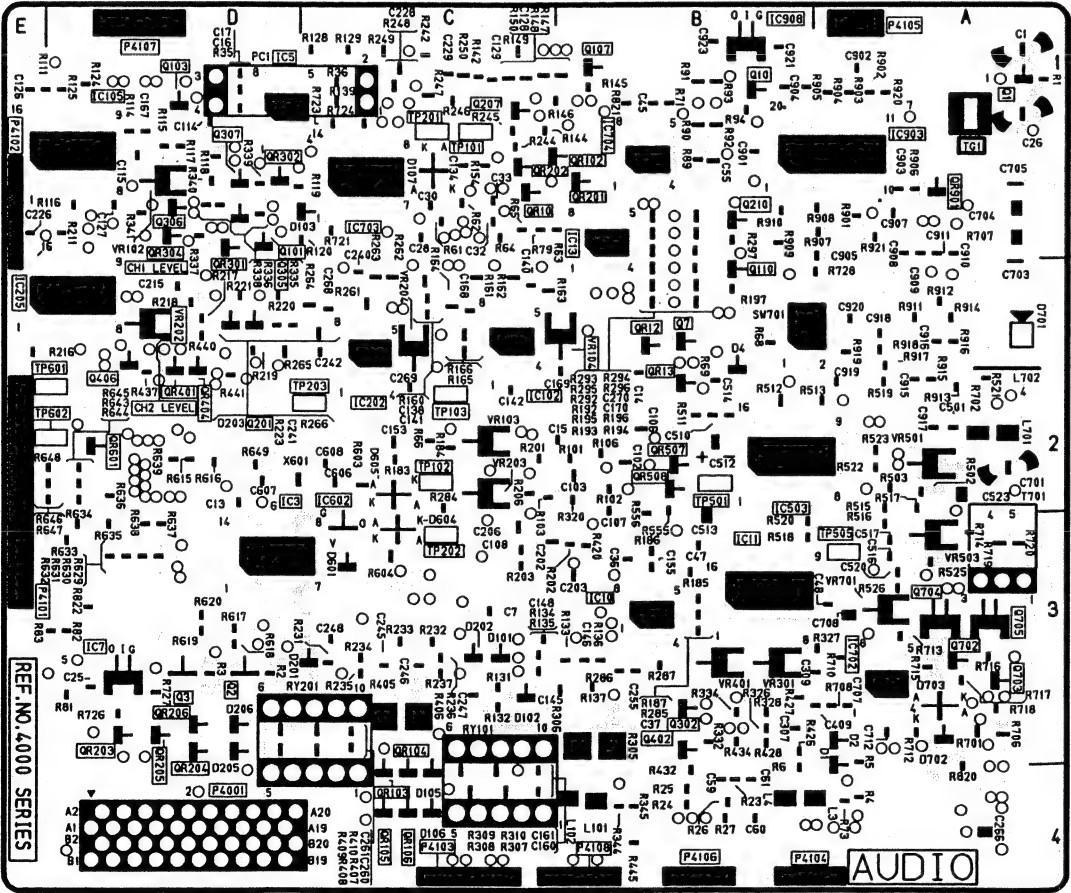
(COMPONENT SIDE)

PTN10

AUDIO LCD P.C.BOARD(VEP84317A)

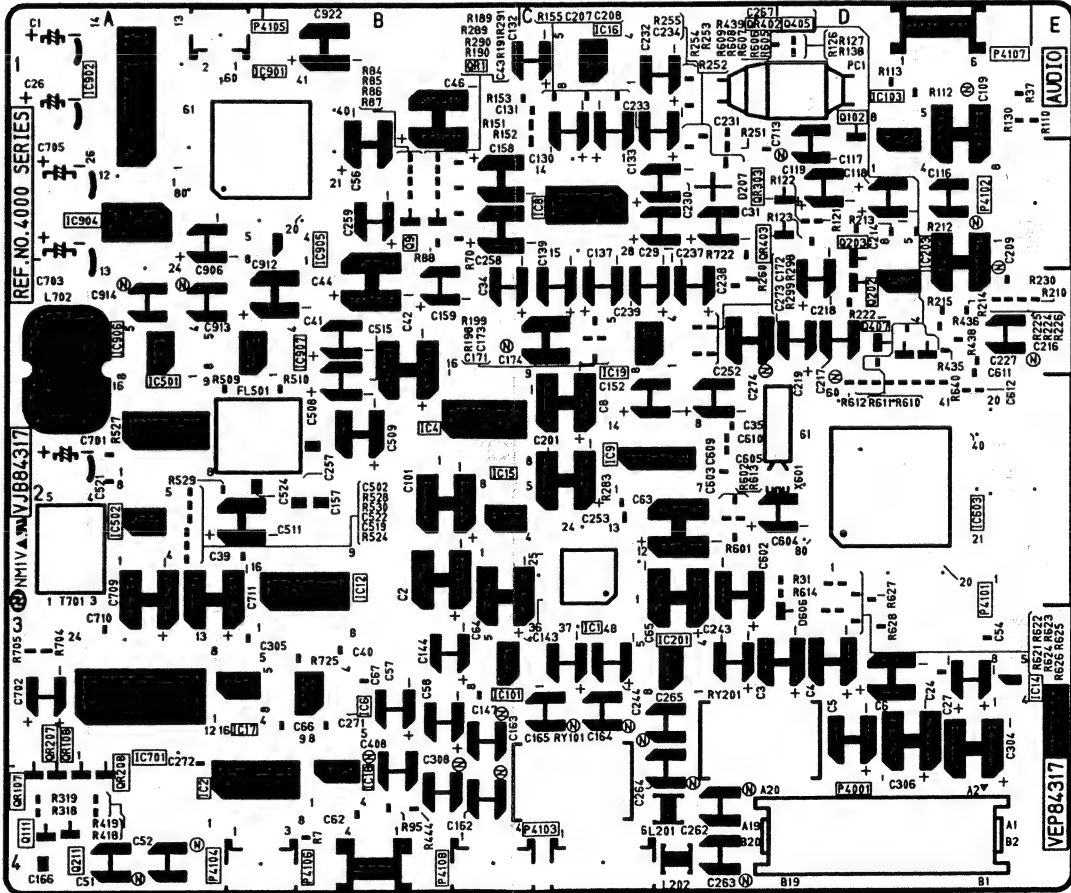
REF	LOC	REF	LOC	REF	LOC
IC4001	C2	IC4901	A1	Q4211	A4
IC4002	A4	IC4902	A1	Q4405	D1
IC4004	B2	IC4904	A1	Q4407	D1
IC4006	B3	IC4905	B1	QR4001	B1
IC4008	C1	IC4906	A1	QR4107	A4
IC4009	C2	IC4907	A1	QR4108	A4
IC4012	B2	P4001	D4	QR4207	A4
IC4014	D3	P4101	E2	QR4208	A4
IC4015	B2	P4102	E1	QR4303	D1
IC4016	C1	P4103	C4	QR4402	D1
IC4017	A3	P4104	B4	QR4403	D1
IC4018	B4	P4105	A1		
IC4019	C1	P4106	B4		
IC4101	B3	P4107	D1		
IC4103	D1	P4108	B4		
IC4201	C3	PC4001	C1		
IC4203	D1	Q4009	B1		
IC4501	A2	Q4102	D1		
IC4502	A2	Q4111	A4		
IC4603	D2	Q4202	D1		
IC4701	A3	Q4203	D1		

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4003	D3	Q4201	D2	QR4206	D3	VR4203	C2
IC4005	D1	Q4207	C1	QR4301	D1	VR4204	C2
IC4007	D3	Q4210	B1	QR4302	D1	VR4301	B3
IC4010	B3	Q4302	B3	QR4304	D1	VR4401	B3
IC4011	B3	Q4305	D1	QR4401	D2	VR4501	A2
IC4013	B1	Q4306	D1	QR4404	D2	VR4503	A3
IC4102	C2	Q4307	D1	QR4507	B2	VR4701	A3
IC4105	D1	Q4402	B3	QR4508	B2		
IC4202	C2	Q4406	D2	QR4601	D2		
IC4205	D2	Q4702	A3	QR4901	A1		
IC4503	B2	Q4703	A3	SW4701	B2		
IC4602	C3	Q4704	A3	TG4001	A1		
IC4702	A3	Q4705	A3	TP4101	C1		
IC4703	C1	QR4010	C1	TP4102	C2		
IC4704	B1	QR4012	B2	TP4103	C2		
IC4903	A1	QR4013	B2	TP4201	C1		
IC4908	B1	QR4102	C1	TP4202	C3		
Q4001	A1	QR4103	C4	TP4203	C2		
Q4002	D3	QR4104	C4	TP4501	B2		
Q4003	D3	QR4105	C4	TP4505	A3		
Q4007	B2	QR4106	C4	TP4601	D2		
Q4010	B1	QR4201	B1	TP4602	D2		
Q4101	D1	QR4202	C1	VR4102	D1		
Q4103	D1	QR4203	D3	VR4103	C2		
Q4107	B1	QR4204	D3	VR4104	B2		
Q4110	B2	QR4205	D3	VR4202	D2		



(FOILSIDE)

PTN11



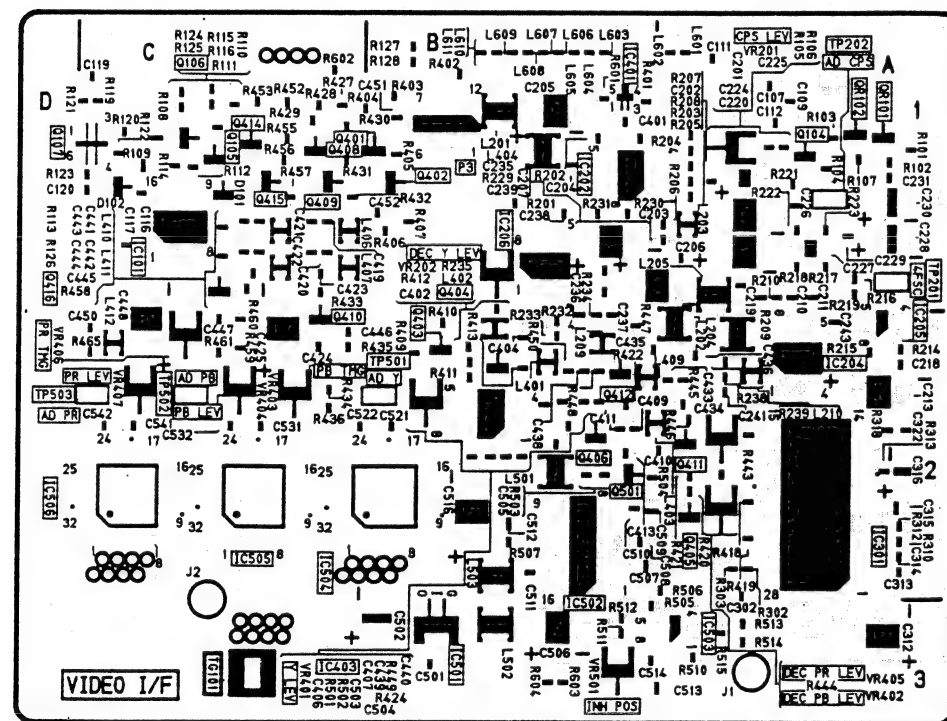
(COMPONENT SIDE)

PTN11

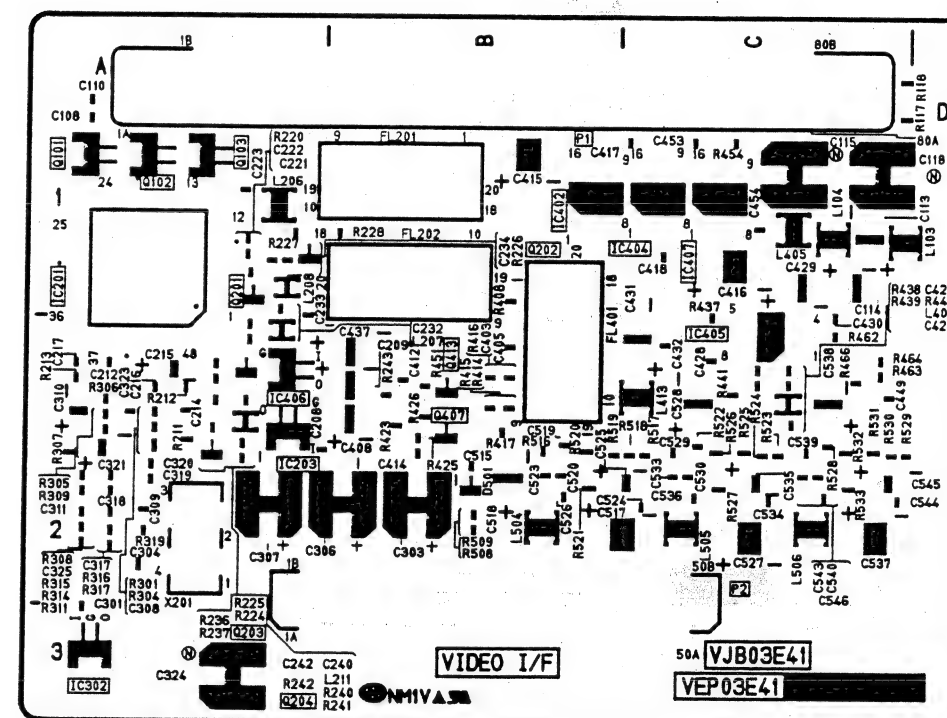
PTN12

PTN12

VIDEO I/F P.C.BOARD(VEP03E41C)

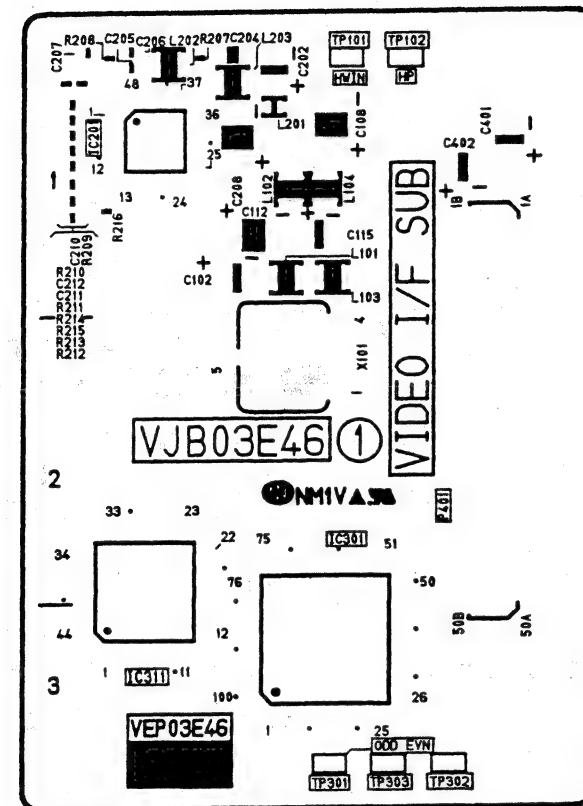


(FOIL SIDE)

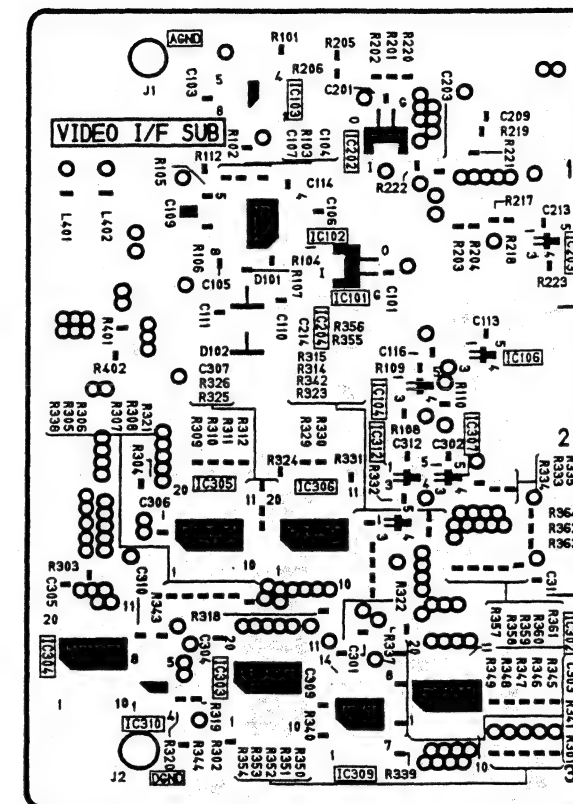


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VIDEO I/F SUB P.C.BOARD(VEP03E46C)



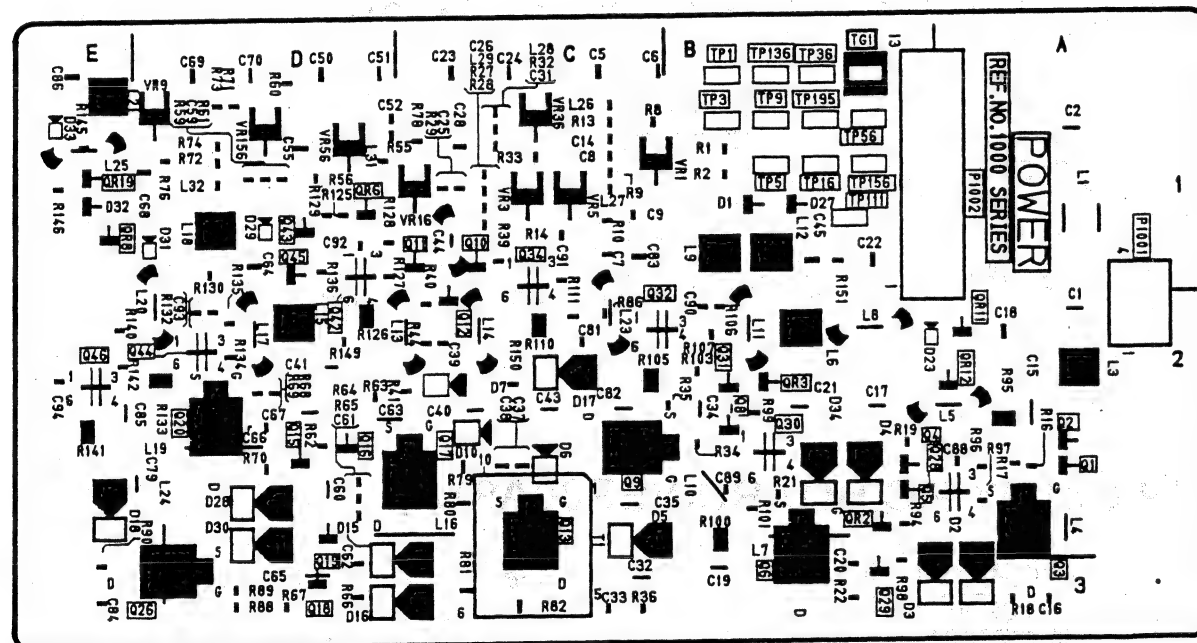
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(COMPONENT SIDE)

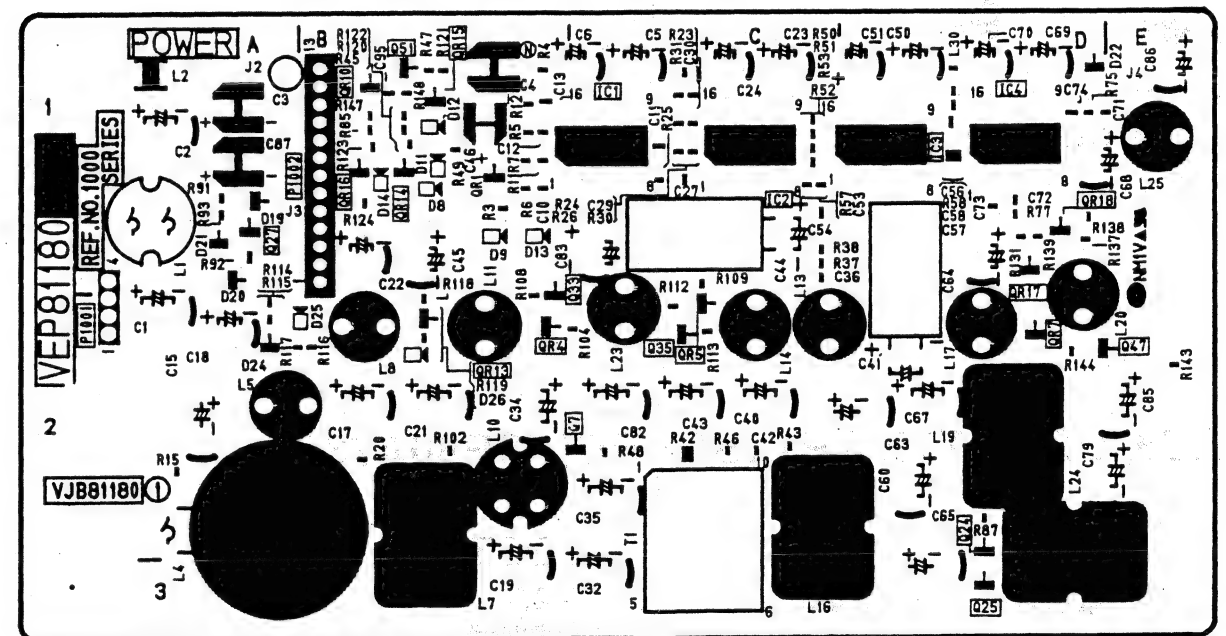
POWER P.C.BOARD(VEP81180D)

REF	LOC
P1001	D2
P1002	D1



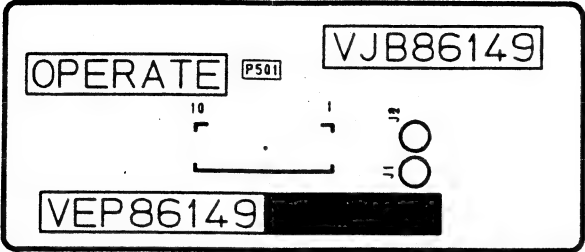
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REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1001	C1	Q1018	A3	Q1047	D2	TG1001	C1
IC1002	C1	Q1019	A2	Q1051	B1	TP1001	C1
IC1003	D1	Q1020	A2	QR1001	B1	TP1003	C1
IC1004	D1	Q1024	D2	QR1002	D2	TP1005	C1
Q1001	D2	Q1025	D3	QR1003	C2	TP1009	C1
Q1002	D2	Q1026	A3	QR1004	B2	TP1016	C1
Q1003	D2	Q1027	A1	QR1005	C2	TP1036	C1
Q1004	D2	Q1028	D2	QR1006	B1	TP1056	D1
Q1005	D2	Q1029	D3	QR1007	D2	TP1111	C1
Q1006	C2	Q1030	C2	QR1008	A1	TP1136	C1
Q1007	B2	Q1031	C2	QR1010	B1	TP1156	D1
Q1008	C2	Q1032	C2	QR1011	D2	TP1195	C1
Q1009	C2	Q1033	B2	QR1012	D2	VR1001	C1
Q1010	B1	Q1034	B1	QR1013	B2	VR1003	B1
Q1011	B1	Q1035	C2	QR1014	B1	VR1005	B1
Q1012	B2	Q1042	B1	QR1015	B1	VR1009	A1
Q1013	B2	Q1043	A1	QR1016	B1	VR1016	B1
Q1015	A2	Q1044	A2	QR1017	D1	VR1036	B1
Q1016	B2	Q1045	A1	QR1018	D1	VR1056	B1
Q1017	B2	Q1046	A2	QR1019	A1	VR1156	A1

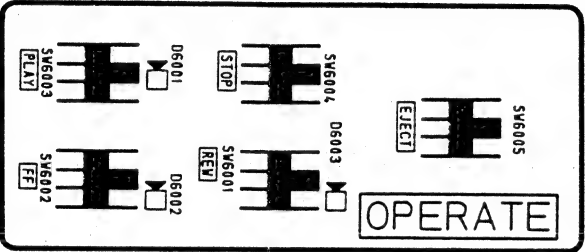


(COMPONENT SIDE)

OPERATE P.C.BOARD(VEP86149C)

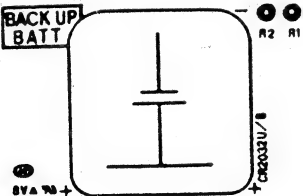


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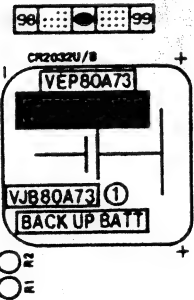


(COMPONENT SIDE)

BACK UP BATTERY P.C.BOARD(VEP80A73A)

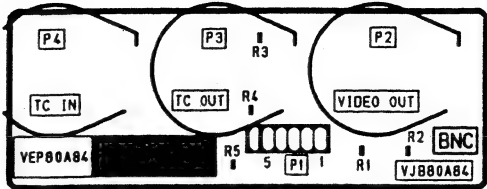


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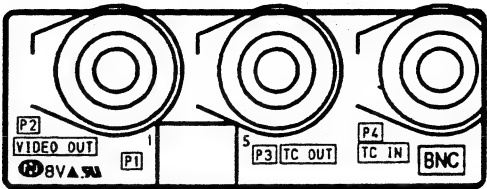


(COMPONENT SIDE)

BNC P.C.BOARD(VEP80A84A)

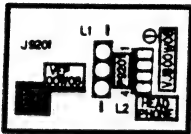


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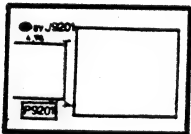


(COMPONENT SIDE)

HEAD PHONE P.C.BOARD(VEP00W08B)

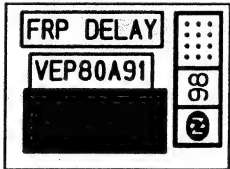


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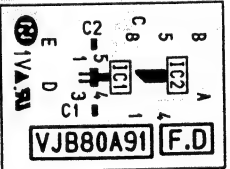


(COMPONENT SIDE)

FRP DELAY P.C.BOARD(VEP80A91A)

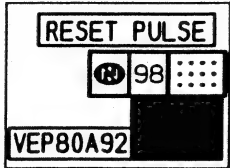


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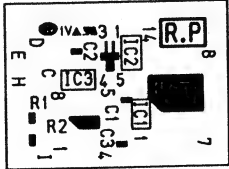


(COMPONENT SIDE)

RESET PULSE P.C.BOARD(VEP80A92A)



(FOILSIDE)



(COMPONENT SIDE)

SECTION 4

EXPLODED VIEWS & PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000
OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.
3. The P.C. Board units marked with "■" shown below the main assembled parts.
4. The parts marked with (E) on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available

<<Abbreviations for part>>

<NAME>		<DESCRIPTIONS>
C. CAPACITOR		: CERAMIC CAPACITOR
C. CAPACITOR	CH	: CERAMIC CHIP CAPACITOR
E. CAPACITOR		: ELECTROLYTIC CAPACITOR
G. CAPACITOR		: GLASS CAPACITOR
M. CAPACITOR		: MICA CAPACITOR
P. CAPACITOR		: PLASTIC FILM CAPACITOR
S. CAPACITOR		: SEMI-CONDUCTOR CAPACITOR
T. CAPACITOR		: TANTALUM CAPACITOR
TRIMMER	:TRIMMER	
C. RESISTOR		: CARBON RESISTOR
F. RESISTOR		: FUSE RESISTOR
M. RESISTOR		: METAL OXIDE RESISTOR
M. RESISTOR	CH	: METAL OXIDE CHIP RESISTOR
S. RESISTOR		: SOLID RESISTOR
V. RESISTOR		: VARIABLE RESISTOR
W. RESISTOR		: WIRE WOUND RESISTOR
COMBI. TR-R		: TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R		: RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R		: CAPACITOR-RESISTOR COMBINATION PARTS
COMBI. C-R-R		: CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C. BOARD		: PRINTED CIRCUIT BOARD
W/COMPONENT		: WITHCOMPONENT

CONTENTS

Mechanical Replacement Parts Rist & Exploded Views	PRT-1
Chassis Frame Assembly(1)	PRT-1
Chassis Frame Assembly(2)	PRT-3
Mechanical Chassis Assembly(1)	PRT-5
Mechanical Chassis Assembly(2)	PRT-7
Cassette Compartment Assembly.....	PRT-9
Packing Parts Assembly	PRT-11
Electrical Replacement Parts List	PRT-12

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SERVICING FIXTURES & TOOLS


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145	BACK TENSION METER	1	(T2-M30-P)					
2	VFK1149	POST DRIVER	1						
3	VFK71	DIAL TORQUE GAUGE(150G)	1						
4	VFK1191	DIAL TORQUE GAUGE(45G)	1						
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR	1						
6	VFK0357	ECCENTRIC SCREWDRIVER 1.5	1						
7	VFK1154	POST HEIGHT FIXTURE	1						
8	VFK1153	MECH. NEUTRAL PLATE(POST)	1						
9	VFK1423	TAPE BEG/END DET CASSETTE	1						
10	VFK1155	NEUTRAL POSITION TOOL	1	(GOLD)					
11	VFK1156	NEUTRAL POSITION TOOL	1	(BLACK)					
12	VFK1208	NEUTRAL POSITION TOOL	1	(BLACK WITH HOLE)					
13	VFK1150	NUT DRIVER (5.5MM)	1						
14	VFK1151	NUT DRIVER (2.5MM)	1						
15	VFK1188	DIAL TENSION GAUGE(30G)	1						
16	VFK0948A	CHECK LIGHT	1						
17	VFK0749	FROIRAL GREASE	1	(FOR PLASTIC)					
18	MOR265	MORLYTONE GREASE	1						
19	VFK1146	PHILIPS DRIVER (FINE)	1	(00-75)					
20	VFK1147	PHILIPS DRIVER (FINE)	1	(0-100)					
21	VFK1148	HEX. DRIVER(1.5)	1						
22	VFK1178	HEX. DRIVER(0.89)	1						
23	VFK1179	HEX. DRIVER(0.71)	1						
24	VFK1190	HEX. WRENCH	1						
25	VFK1209	TORQUE DRIVER(0.4-3KG)	1						
26	VFK1375	POST AXIS DRIVER(1.5MM)	1						
27	VFK1300	A/D BOARD(DAQ-12 QUATECH)	1						
28	VFM3580KM	ALIGNMENT TAPE(NO.1)	1						
29	VFM3581KM	ALIGNMENT TAPE(NO.2)	1						
30	VFM3582KM	ALIGNMENT TAPE(NO.3)	1						
32	VFK1420	LISTA SOFTWARE	1						
33	VFK1186	LISTA CABLE	1						
34	VFK1194	EXTENSION BOARD	1						
35	VFK1162A	EVR TOOL SOFTWARE	1						
36	VFK1158A	B.E.R. COUNTER TOOL	1						
37	VFK1185	B.E.R. COUNTER CABLE	1						
38	VFKW1000AA	EVR I/F BOX UNIT	1						
39	VFKW1000C	EVR RS232C CABLE	1						
40	VFK1180	EVR SUB I/F UNIT	1						
41	VFK1187	EVR CABLE	1						
42	VFK1210	MULTI-CANON CABLE	1						
43	VFK0369	TWEEZERS	1						
44	VFK0371	RADIO PRIER	1						
45	VFK0372	CUTTER PRIER	1						
46	VFK0338	TRIMMER ADJUSTMENT DRIVER	1						
47	VFK0337	PHILIPS DRIVER	1						
48	VFK1160B	RF AUTO ADJUSTMENT SOFT	1						
49	VFK1163	RF AUTO ADJUSTMENT TOOL	1						
50	VFK0906	OIL	1						

Components identified with the mark \triangle have the special characteristics for safety.
When replacing any of these components, use only the same type.

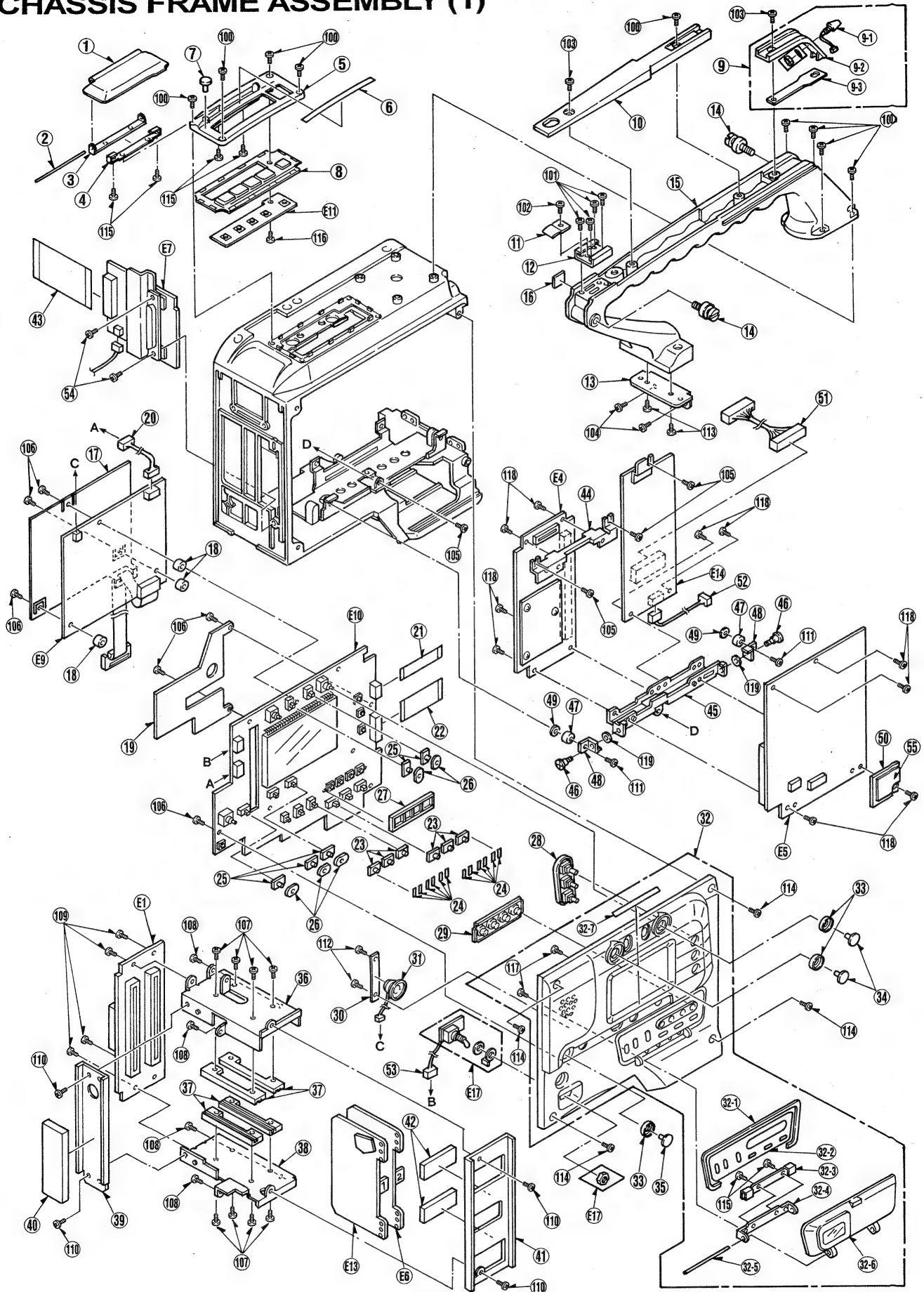
CHASSIS FRAME ASSEMBLY (1)

AJ-D90P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VKW1642	KEY BOARD DOOR	1		106	XTN4+18GFR	SCREW	6	
2	VMS4947	OPERATION SHAFT	1		107	XTV26+6G	SCREW	8	
3	VMP3736	DOOR ANGLE	1		108	XYN3+C6	SCREW	4	
4	VMC0883	DOOR SPRING	1		109	XYN3+K6	SCREW	4	
5	VGK2058	KEY OPERATION PANEL	1		110	XYN3+F8FXRS	SCREW	4	
6	VGH4193	KEY BOARD NAME PLATE	1		111	XYN3+C10	SCREW	2	
7	VMG0657	CUSHION RUBBER	1		112	XTV3+6GFR	SCREW	2	
8	VGU5991	RUBBER BUTTON A	1		113	XSB4+6FC	SCREW	2	
\triangle 9	VYF1888	TALLY COVER	1		114	XSB4+10FCK	SCREW	4	
9-1	BD-601R	TALLY LED	1		115	XTB26+4FFZ	SCREW	6	
11	4G28145	SPRING	1		116	XTB2+4G	SCREW	1	
9-2	VGK2063	TALLY COVER	1		117	XTB26+4F	SCREW	2	
12	V5MA0046A4	CAMERA SHOE	1		118	XTV3+6F	SCREW	10	
9-3	VSC3879	TALLY EARTH SHEET	1		119	XWGV4Y9G	WASHER	2	
13	V2SB1421A4	VTR ANGLE	1						
14	VMS4284	BELT HOOK PIN	2						
15	VKH0261	HANDLE	1		E1	VEP89132A	MOTHER P.C. BOARD	1	
16	VGF0511	BLIND	1		E4	VEP83434E	VIDEO MAIN P.C. BOARD	1	
17	VMZ2815	P.C. BOARD BARRIER	1		E5	VEP83379A	RF P.C. BOARD	1	
18	VMZ2769	SPACER	3		E6	VEP86272A	SYSCON P.C. BOARD	1	
19	VSC4836	LCD SHIELD SHEET	1		E7	VEP89131A	CAM I/F P.C. BOARD	1	
20	VEE0052	LCD-AUDIO CABLE	1		E9	VEP84317A	AUDIO P.C. BOARD	1	
10	VKF2721	HANDLE COVER	1		E10	VEP86271A	LCD P.C. BOARD	1	
21	VWJ08C2040L0	LCD-AUDIO FLEX	1		E11	VEP86143C	OPERATE P.C. BOARD	1	
22	VWJ20C2040L0	LCD-AUDIO FLEX	1		E13	VEP03E41C	VIDEO IF P.C. BOARD	1	
23	VGU7916	SLIDE KNOB	6		E14	VEP81180D	POWER P.C. BOARD	1	
24	VGH4194	SLIDE SW SHEET	12		E17	VEP80A83A	POWER SW P.C. BOARD	1	
25	VGU7152	SLIDE SW COVER B	5						
26	VMG0947	SLIDE KNOB RUBBER	5						
27	VG02936	OP BUTTON WATERPROOF	1						
28	VGU5912	BUTTON (B)	1						
29	VMG1145	OPERATION BUTTON (B)	1						
30	VMC0882	SPEAKER HOLDER	1						
31	VEK8438	SPEAKER ASS'Y	1						
32	VYP6917	SIDE PANEL	1						
32-1	VMG0725	PACKING GUM	1						
32-2	VGH4184	OPERATION PLATE (A)	1						
32-3	VMC0883	DOOR SPRING	1						
32-4	VMP3736	DOOR ANGLE	1						
32-5	VMS4947	OPERATION SHAFT	1						
32-6	VYF2500	OPERATION DOOR ASS'Y	1						
32-7	VGH4185	OPERATION PLATE (B)	1						
33	VGU5694	VR KNOB	3						
34	VGH2810	VR NAME PLATE	2						
35	VGH4186	VR NAME PLATE	1						
36	VMP5693	SLIDE PLATE ANGLE	1						
37	VG03992	GUIDE RAIL	4						
38	VMP5694	SLIDE PLATE ANGLE	1						
39	VMP5738	P.C. BOARD ANGLE	1						
40	VMG0695	P.C. BOARD CUSHION	1						
41	VMP5690	P.C. BOARD ANGLE	1						
42	VMT0912	P.C. BOARD CUSHION	2						
43	VEE0070	JACK-BATT IN FLEX	1						
44	VMP5582	P.C.B. ANGLE (UPPER)	1						
45	VMP5583	P.C.B. ANGLE (B)	1						
46	VHD0325	SCREW	2						
47	VMS6272	SPACER	2						
48	VMP5746	ROTARY ANGLE	2						
49	VMX2716	WASHER	2						
50	VSC4830	SHIELD PLATE	1						
51	VEE0034	POWER-INT CON. CABLE	1						
52	VEE9436	JACK-POWER SERVO CABLE	1						
53	VEE0051	POWER SW-LCD CABLE	1						
54	VHD0508	SCREW	2						
55	VMZ2841	BARRIER	1						
100	XSB2+6FCK	SCREW	9						
101	XSN2+6FZ	SCREW	4						
102	XSN26+4FC	SCREW	1						
103	XSB3+6FZ	SCREW	2						
104	XSB4+8S	SCREW	2						
105	XYN3+K6RS	SCREW	4						

Components identified with the mark  have the special characteristics for safety.
When replacing any of these components, use only the same type.

CHASSIS FRAME ASSEMBLY (1)

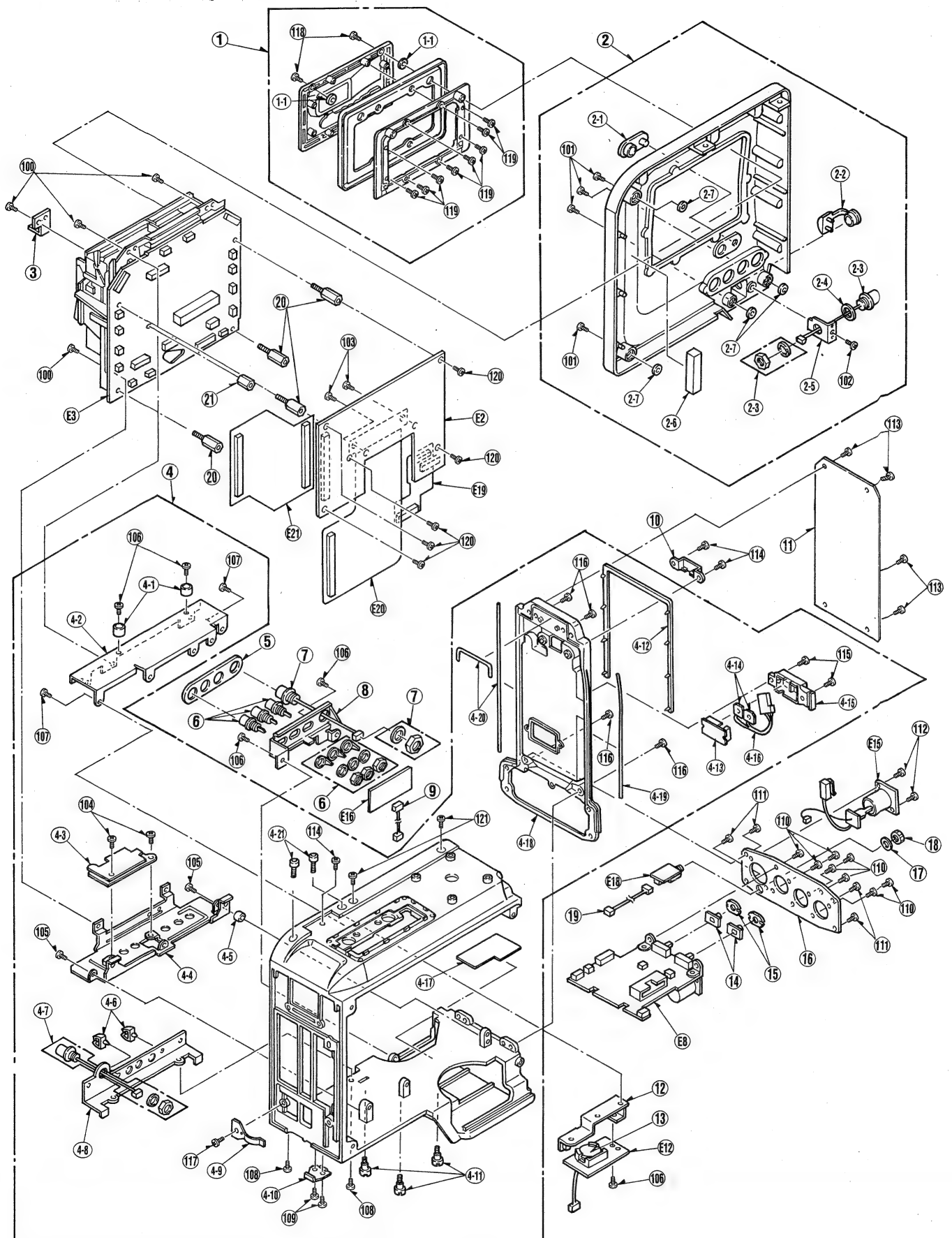


CHASSIS FRAME ASSEMBLY (2)

AJ-D90P

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CHASSIS FRAME ASSEMBLY (2)

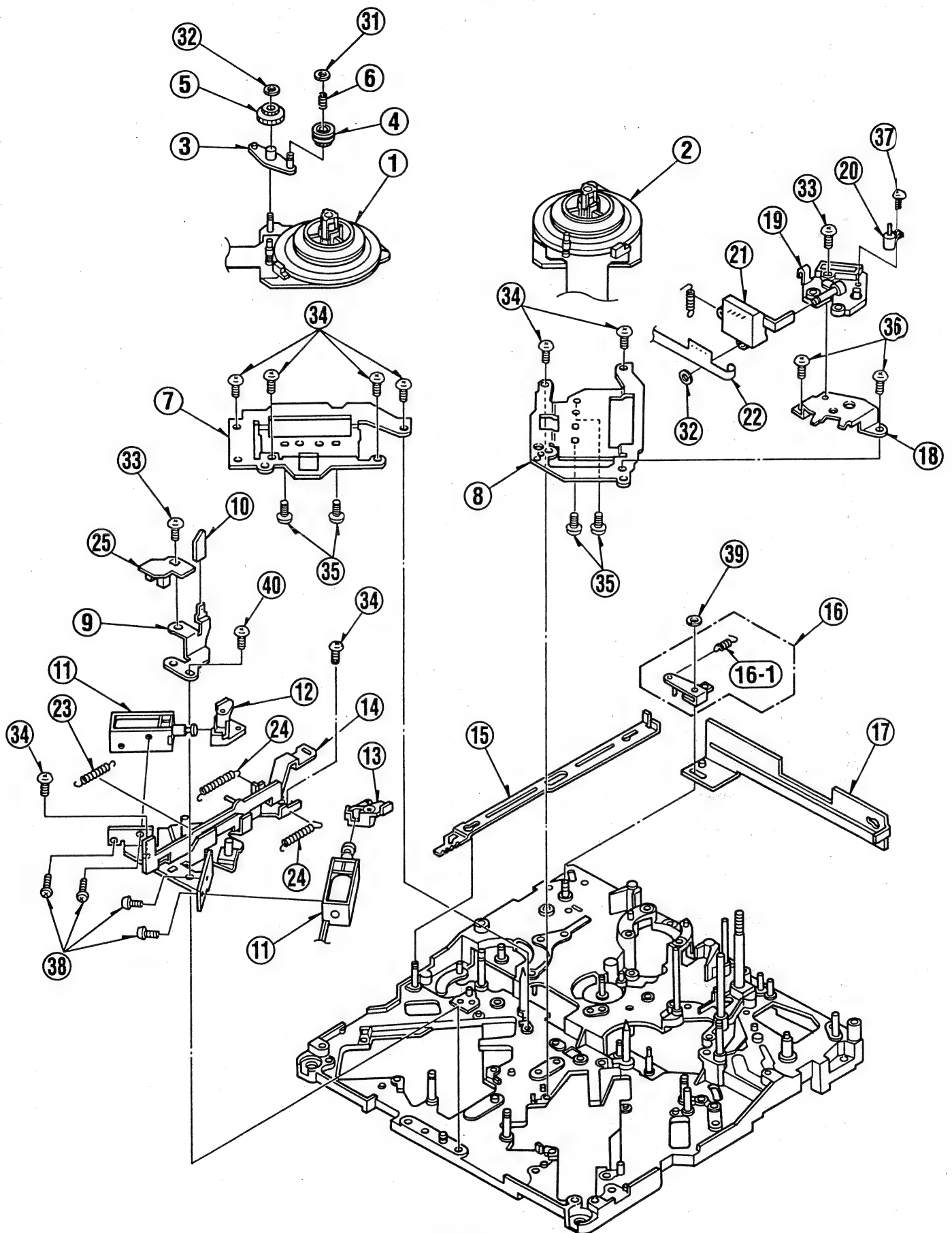


MECHANICAL CHASSIS ASSEMBLY (1)

AJ-D90P

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MECHANICAL CHASSIS ASSEMBLY (1)




Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY (2)

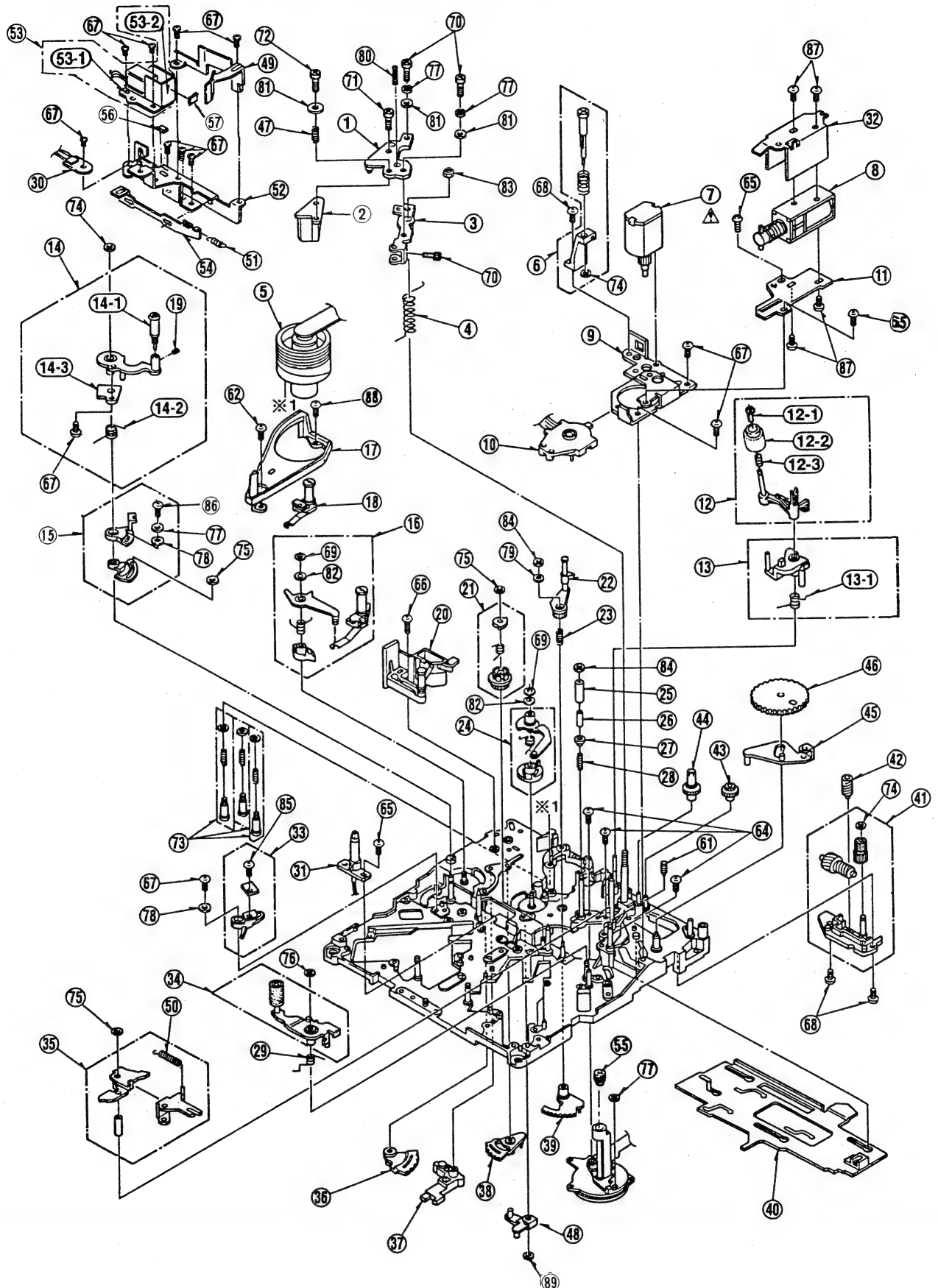
AJ-D90P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1 (M)	
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
5	VEG1444	CYLINDER UNIT	1 (M)	
6	VXA5715	EMERGENCY SHIFT HOLDER U	1	
7	VEM0645	LOADING MOTOR (1) A ASS'Y	1 (M)	
8	VSJ0227	PINCH SOLENOID	1 (M)	
9	VXA5584	MOTOR ANGLE ASS'Y	1	
10	VES0814	MODE SW ASS'Y	1 (M)	
11	VMA9376	PINCH SOLENOID BASE	1	
12	VXL2748	CLEANING ARM A ASS'Y	1 (M)	
12-1	VMD2150	CLEANER ROLLER HOLDER	1	
12-2	VXP1808	CLEANER ROLLER UNIT	1	
12-3	VMB3114	CLEANER ROLLER SPRING	1	
13	VXL2870	T2 ARM ASS'Y.	1	
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2832	TENSION ARM A ASS'Y	1 (M)	
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791	TENSION LEG SPRING HOOK U	1	
16	VXL2812	S1 LOADING ARM ASS'Y	1 (M)	
17	VMD2533	LOADING RAIL	1	
18	VXA6108	T1 BOAT ASS'Y	1 (M)	
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1 (M)	
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1	
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2842	T LOADING ARM N ASS'Y	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULATION SENSOR	1	
31	VEK7691	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR ASS'Y	1	
34	VXL2835	PINCH ARM ASS'Y	1 (M)	
35	VXL2588	PINCH GUIDE ARM ASS'Y	1	
36	VXA5570	T SECTOR GEAR ASS'Y	1	
37	VXL2838	TENSION GUIDE ARM ASS'Y	1	
38	VXA5567	S SECTOR GEAR ASS'Y	1	
39	VXA5564	T4 SECTOR GEAR ASS'Y	1	
40	VXA5563	MAIN ROD ASS'Y	1	
41	VXA5627	THRUST SHAFT HOLDER ASS'Y	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMERGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMERGENCY GEAR B(A)	1	
45	VXL2841	MAIN CAM ARM ASS'Y	1	
46	VDG1168	MAIN CAM GEAR	1 (M)	
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXL2600	EJECT ARM ASS'Y	1	
49	VXA5770	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1 (M)	
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VX00556	THRUST SCREW ASS'Y	1 (M)	
56	VMT0871	SILENCER A	1 (M)	
57	VMT0872	SILENCER B	1 (M)	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VX00439	SCREW	3	
74	VMD0967	CUT WASHER	3	
75	VMD1061	WASHER	3	
76	VMD1079	CUT WASHER	1	
77, 78	XWA2B	WASHER	3	
79	XWE16VM	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	VMD1394	CUT WASHER	1	
*	VXY1310	MECHANISM ASS'Y	1 (M)	

Components identified with the mark  have the special characteristics for safety.
When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY (2)

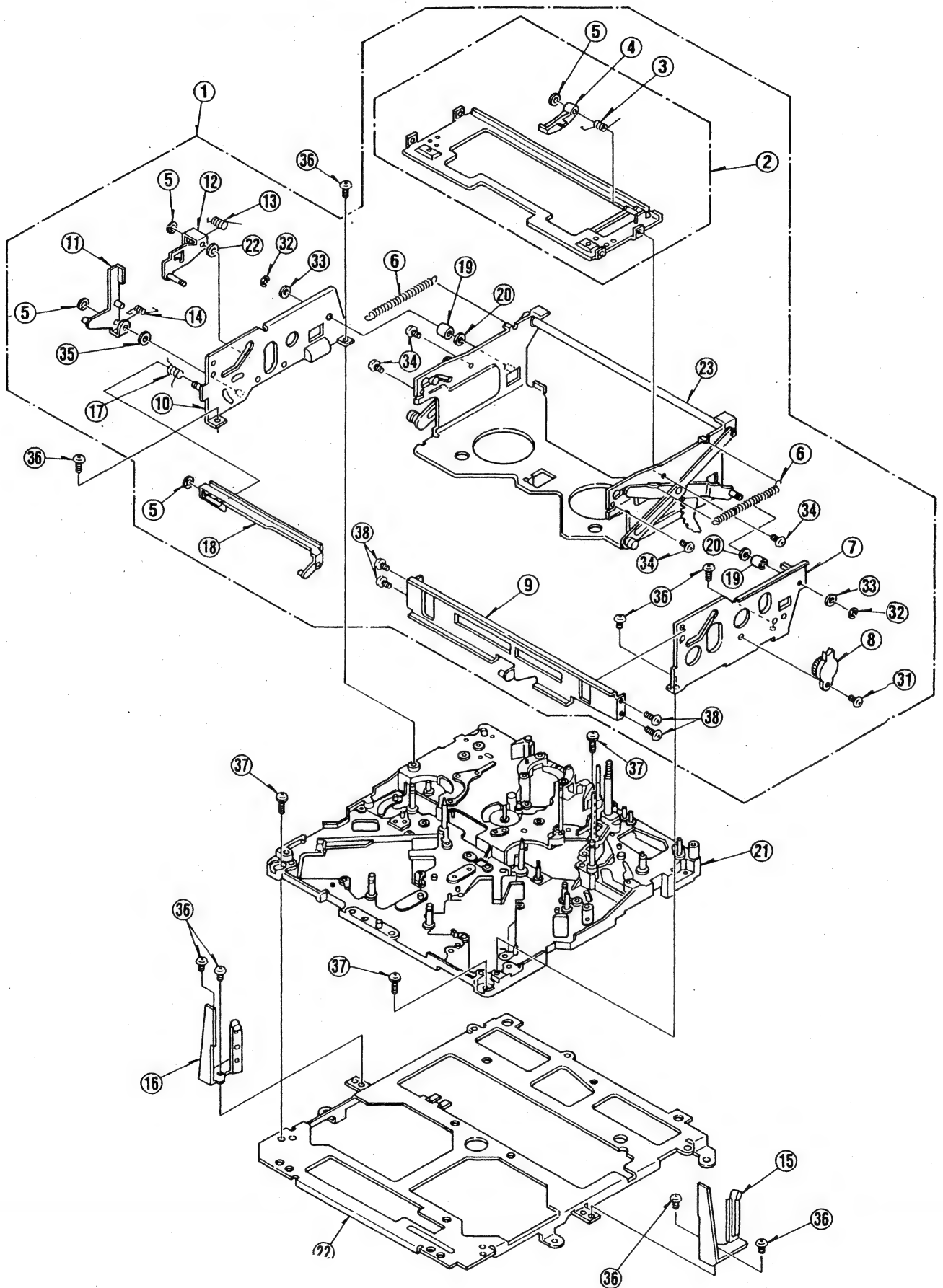



CASSETTE COMPARTMENT ASSEMBLY

AJ-D90P

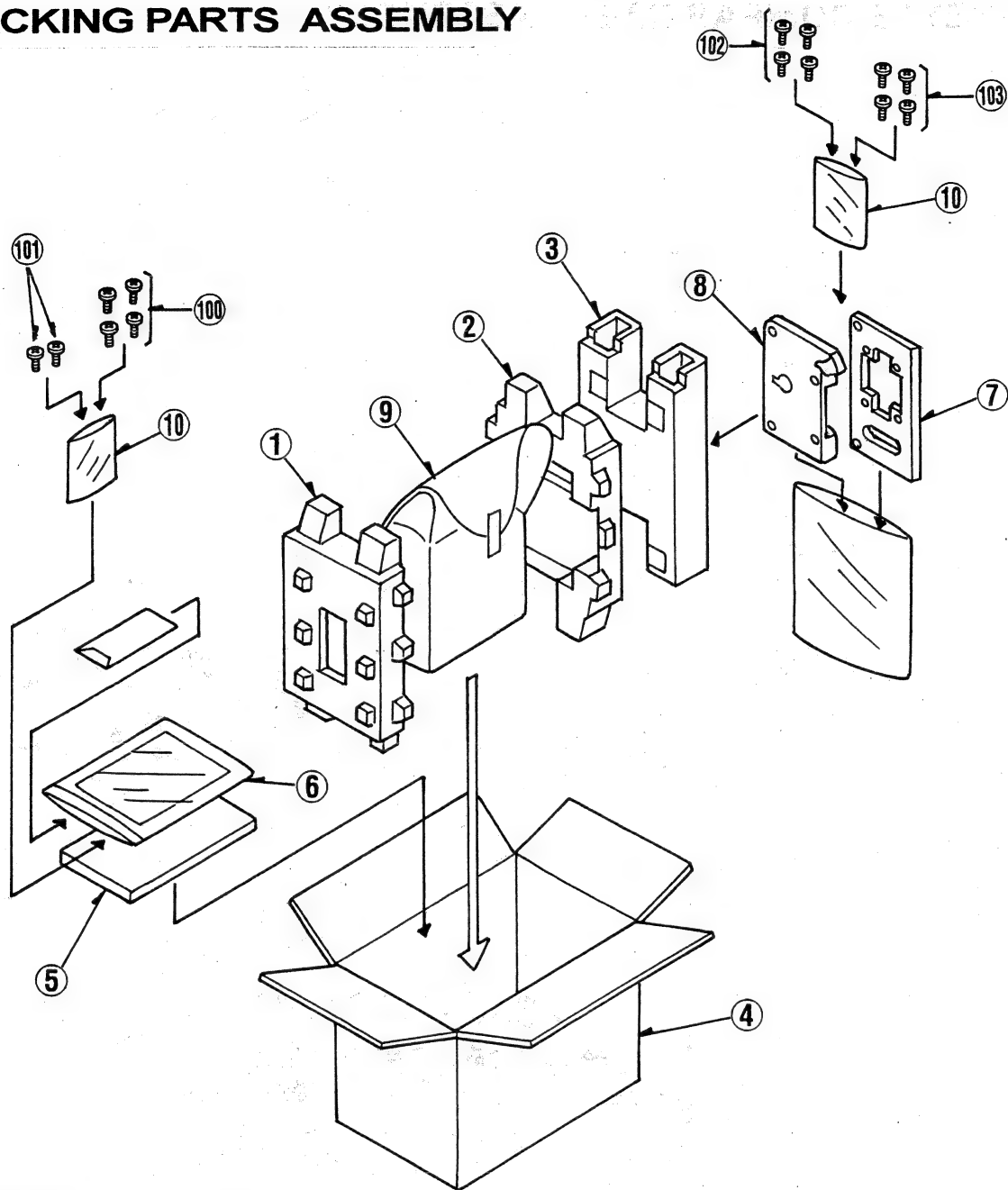
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CASSETTE COMPARTMENT ASSEMBLY





Components identified with the mark  have the special characteristics for safety.
When replacing any of these components, use only the same type.

PACKING PARTS ASSEMBLY



PACKING

AJ-D90P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPN4882	CUSHION (R)	1						
2	VPN4881	CUSHION (F)	1						
3	VPN3538	SPACER	1						
4	VPG9470	PACKING CASE	1						
5	VPG9473	SPACER SHEET	1						
 6	VQT7570	OPERATING	1						
7	VMP5687	BRACKET ANGLE	1						
 8	VJF1347	ANTENNA BRACKET	1						
9	VPF0230	POLY BAG	1						
9	VPF0677	POLYETHYLENE BAG	1						
10	VPF0508	SCREW BAG	2						
100	XYN3+C8	SCREW	4						
101	XSN5+18FZ	SCREW	2						
102	XSB3+12FZ	SCREW	4						
103	XSS3+6FZ	SCREW	4						

ELECTRICAL REPLACEMENT PARTS LIST AJ-190P
VEP89132A / VEP80A65A / VEP82115A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP89132A	MOTHER P.C.BOARD	1 (RTL)	
■ E2	VEP80A65A	INT CONNECT P.C.BOARD	1 (RTL)	
■ E3	VEP82215A	SERVO P.C.BOARD	1 (RTL)	
■ E4	VEP83434E	VIDEO MAIN P.C.BOARD	1 (RTL)	
■	VEP83401A	VIDEO SUB P.C.BOARD	1 (RTL) FOR VEP83434E	
■	VEP88234G	VIDEO MICOM P.C.BOARD	1 (RTL) FOR VEP83434E	
■ E5	VEP83379A	RF P.C.BOARD	1 (RTL)	
■ E6	VEP86272A	SYSCON P.C.BOARD	1 (RTL)	
■ E7	VEP89131A	CAM I/F P.C.BOARD	1 (RTL)	
■ E8	VEP80A82B	REAR JACK P.C.BOARD	1 (RTL)	
■ E9	VEP84317A	AUDIO P.C.BOARD	1 (RTL)	
■ E10	VEP86271A	LCD P.C.BOARD	1 (RTL)	
■ E11	VEP86143C	OPERATE P.C.BOARD	1 (RTL)	
■ E12	VEP80A73A	BACK UP BATT P.C.BOARD	1 (RTL)	
■ E13	VEP03E41C	VIDEO IF P.C.BOARD	1 (RTL)	
■	VEP03E46C	VIDEO IF SUB P.C.BOARD	1 (RTL) FOR VEP03E41C	
■	VEP80A92	RESET PULSE P.C.BOARD	1 (RTL) FOR VEP03E41C	
■	VEP80A91A	FRP DELAY P.C.BOARD	1 (RTL) FOR VEP03E41C	
■ E14	VEP81180D	POWER P.C.BOARD	1 (RTL)	
■ E15	VEP80A85A	DC INPUT P.C.BOARD	1 (RTL)	
■ E16	VEP80A84A	BNC P.C.BOARD	1 (RTL)	
■ E17	VEP80A83A	POWER SW P.C.BOARD	1 (RTL)	
■ E18	VEP00W08B	HEAD PHONE P.C.BOARD	1 (RTL)	
■ E19	VEP80A66A	REAR FLEX P.C.BOARD	1 (RTL)	
■ E20	VEP80A67A	VIDEO FLEX P.C.BOARD	1 (RTL)	
■ E21	VEP80A68A	MAIN FLEX P.C.BOARD	1 (RTL)	
■ VEP89132A		MOTHER P.C.BOARD	1 (RTL)	
C9601,02	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	2	
L9601-06	VLP0353	COIL	6	
P9601,02	VJS3657	CONNECTOR (FEMALE)	2	
P9603	VJP3808E160	CONNECTOR (MALE)	1	
P9604	VJS3801B050	CONNECTOR (FEMALE)	1	
P9605	VJP3125B006	CONNECTOR (MALE)	6P	1
P9606	VJP3125B003	CONNECTOR (MALE)	3P	1
P9607	VJP3125B010	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P9608	VJP3125B004	CONNECTOR (MALE)	1	
P9609	VJP3172D002	CONNECTOR (MALE)	1	
P9610	VJP3125B005	CONNECTOR (MALE) 5P	1	
R9602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9603-06	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	4	
R9607-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
■ VEP80A65A		INT CONNECT P.C.BOARD	1 (RTL)	
C9801-06	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	6	
C9820	ECEA1CU101	E.CAPACITOR 16V 100U	1	
IC9801-04	TVHC541FT	IC	4	
L9801	VL00319KT01	COIL 100UH	1	
L9802-05	VLP0353	COIL	4	
L9810	ELELN560KA	COIL	1	
P9608	VJP3808E160	CONNECTOR (MALE)	1	
P9802	VJS4106A160L	CONNECTOR (FEMALE)	1	
P9803	VJS3807E060	CONNECTOR (MALE)	1	
P9804	VJP3808E040	CONNECTOR (MALE)	1	
P9805	VJP3518B013	CONNECTOR (MALE)	1	
P9806	VJP3952B070	CONNECTOR (MALE)	1	
P9807	VJP3125B004	CONNECTOR (MALE)	1	
P9808	VJP3125B005	CONNECTOR (MALE) 5P	1	
R9801-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R9812-49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	38	
R9850, 51	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R9852	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9866-71	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R9874	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9880-82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
TG9801	EYF6CU	TEST POINT	1	
TP9801-09	EYF6CU	TEST POINT	9	
		MISCELLANEOUS		
	XQN26+A3	SCREW	2	
	VMS6279	SPACER	2	
	VMZ2647	BARRIER (F)	1	
	XWE26	WASHER	2	
■ VEP82215A		SERVO P.C.BOARD	1 (RTL)	
C100,01	ECEVOJV3300	E.CAPACITOR CH6.3V 33U	2	
C103	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C107	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C108	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C109	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C110	ECEV1CV1000	E.CAPACITOR CH 16V 10U	1	
C111	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C113	VCE0180	CAPACITOR	1	
C115	YCE0180	CAPACITOR	1	
C120	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C133	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C134	ECEVOJV3300	E.CAPACITOR CH6.3V 33U	1	
C135	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C137, 38	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C139	ECEV1EV2200	E.CAPACITOR CH 25V 22U	1	
C140, 41	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C143	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1		C517	ECEV1HV3R30	E. CAPACITOR CH 50V 3. 3U	1	
C144-47	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	4		C518, 19	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	2	
C150, 51	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2		C601	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C152	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		C602	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C200-04	VCE0180	CAPACITOR	5		C603	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C207	ECEV0JV220Q	E. CAPACITOR CH6. 3V 22U	1		C605	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C208-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		C607	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	
C211	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		C608	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C212, 13	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U	2		C609	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C217	ECEV0JV220Q	E. CAPACITOR CH6. 3V 22U	1		C610	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C218-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		C611	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C221, 22	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U	2		C612	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C223	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2. 2U	1		C614	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C224	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		C616	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	
C228-30	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	3		C617, 18	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C234-36	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	3		C620, 21	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C240	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C622	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C241	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C623	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C242	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C624	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C243	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C625	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C244	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C626	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C245	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C627	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C246-48	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	3		C628	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C250	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1		C629	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C251	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C630	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C252	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C631, 32	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2	
C253	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C633, 34	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C254	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C635, 36	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2	
C255	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C637-41	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	5	
C256	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C702	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C260, 61	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2		C703	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4. 7U	1	
C304, 05	VCE0180	CAPACITOR	2		C704	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C307, 08	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2		C705	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C309	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		C706, 07	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2	
C310	VCC0037F432	C. CAPACITOR 432P	1		C801	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C311	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		C804-08	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	5	
C312	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		C809	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C318, 19	VCE0180	CAPACITOR	2		C810, 11	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2	
C321	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U	1		C812, 13	ECA12HG472L	E. CAPACITOR 4700U	2	
C322	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C814	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C323	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4. 7U	1		C817	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4. 7U	1	
C324, 25	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2		C906	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C326	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C907, 08	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	2	
C327-29	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3						
C330	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		D100	MA142K	DIODE	1	
C331	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U	1		D101, 02	MA143	DIODE	2	
C332	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		D103	MA736	DIODE	1	
C333	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4. 7U	1		D200, 01	MA143	DIODE	2	
C334, 35	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	2		D202	MA728	DIODE	1	
C336	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		D203	MA736	DIODE	1	
C337-39	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		D204	MA728	DIODE	1	
C340-42	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	3		D205	MA736	DIODE	1	
C343-46	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4. 7U	4		D210-13	MA8047-H	DIODE	4	
C349	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		D301	MA728	DIODE	1	
C351	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		D302	MA736	DIODE	1	
C353, 54	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U	2		D303	MA728	DIODE	1	
C357-59	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	3		D304	MA736	DIODE	1	
C401-04	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	4		D401	MA736	DIODE	1	
C407-10	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	4		D402-05	MA143	DIODE	4	
C411-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		D406	MA736	DIODE	1	
C414-16	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	3		D502-04	MA142WK	DIODE	3	
C418	ECEV1HV3R30	E. CAPACITOR CH 50V 3. 3U	1		D505	MA142WK	DIODE	1	
C419	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		D701	MA143	DIODE	1	
C420	ECEV1HV3R30	E. CAPACITOR CH 50V 3. 3U	1		D702	MA3062M	DIODE	1	
C422-25	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	4		D703	MA738	DIODE	1	
C432	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1		D704	MA3056-L	DIODE	1	
C433	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		D801-03	MA142WK	DIODE	3	
C434	ECEV1HV3R30	E. CAPACITOR CH 50V 3. 3U	1		D807	MA142WK	DIODE	1	
C435	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		D811, 12	MA142WK	DIODE	2	
C504	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1		D813	21D004	DIODE	1	
C506	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		D814-16	MA142WK	DIODE	3	
C507	ECEV1HV3R30	E. CAPACITOR CH 50V 3. 3U	1		D817-28	MA738	DIODE	12	
C508-11	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	4		D829	NS003A04	DIODE	1	
C514	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		D830	MA8051-H	DIODE	1	
C515	ECEV1HV3R30	E. CAPACITOR CH 50V 3. 3U	1		D831, 32	NS003A04	DIODE	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D833	MA142WK	DIODE	1		P620	VJP3358C022	CONNECTOR (MALE)	1	
IC100	VS12664B	IC	1		Q100, 01	2SD1820R	TRANSISTOR	2	
IC103	UPC4556G2	IC	1		Q103, 04	2SD1820R	TRANSISTOR	2	
IC104	MN13821-S	IC	1		Q105	2SB1219A-R	TRANSISTOR	1	
IC105, 06	TC7SH04FU	IC	2		Q200, 01	2SB1073-R	TRANSISTOR	2	
IC110	XC62AP3002P	IC	1		Q301, 02	2SB1073-R	TRANSISTOR	2	
IC200, 01	AN3890FBS	IC	2		Q401	2SB1219A-R	TRANSISTOR	1	
IC202, 03	MDC05	IC	2		Q502, 03	2SD1819A-R	TRANSISTOR	2	
IC204, 05	TA75W01FU	IC	2		Q601	2SD1819A-R	TRANSISTOR	1	
IC207	TA75W01FU	IC	1		Q602	2SD1820R	TRANSISTOR	1	
IC208	TA75W393FU	IC	1		Q702	2SB1073-R	TRANSISTOR	1	
IC209	TC75W54FU	IC	1		Q703	2SD1624-S	TRANSISTOR	1	
IC210	TA75W393FU	IC	1		Q811	2SB936A-Q	TRANSISTOR	1	
IC211	TC4W53FU	IC	1		Q812	2SD1819A-R	TRANSISTOR	1	
IC301	TL1451CDB	IC	1		Q815	2SD1819A-R	TRANSISTOR	1	
IC302, 03	AN3841SR	IC	2		Q816, 17	2SB1073-R	TRANSISTOR	2	
IC401, 02	TA75W393FU	IC	2		Q819	2SD1819A-R	TRANSISTOR	1	
IC403	TA75W01FU	IC	1		Q820	2SB1219A-R	TRANSISTOR	1	
IC404, 05	TC7W74FU	IC	2		Q821, 22	2SD1624-S	TRANSISTOR	2	
IC406, 07	UPC4558G2	IC	2		Q823	2SB1219A-R	TRANSISTOR	1	
IC409, 10	TA75W01FU	IC	2		Q825	2SD1819A-R	TRANSISTOR	1	
IC501	MN6755486AC	IC	1		Q826, 27	2SB1073-R	TRANSISTOR	2	
IC502	TC7WU04FU	IC	1		Q829	2SD1819A-R	TRANSISTOR	1	
IC503	TA75W393FU	IC	1		Q830	2SB1219A-R	TRANSISTOR	1	
IC601	TC7W74FU	IC	1		Q831, 32	2SD1624-S	TRANSISTOR	2	
IC602	TVHU04FT	IC	1		Q833	2SB1219A-R	TRANSISTOR	1	
IC603	TVHC157FT	IC	1		Q835	2SD1819A-R	TRANSISTOR	1	
IC604	CXA1211M	IC	1		Q836, 37	2SB1073-R	TRANSISTOR	2	
IC605	MC14053BD	IC	1		Q839	2SD1819A-R	TRANSISTOR	1	
IC606, 07	UPC4082G2	IC	2		Q840	2SB1219A-R	TRANSISTOR	1	
IC608	TC7WU04FU	IC	1		Q841, 42	2SD1624-S	TRANSISTOR	2	
IC609	TC7SH04FU	IC	1		Q843	2SB1219A-R	TRANSISTOR	1	
IC610, 11	SC371028VFU	IC	2		QR101, 02	UN5213	TRANSISTOR-RESISTOR	2	
IC701	TA75W393FU	IC	1		QR106, 07	UN5213	TRANSISTOR-RESISTOR	2	
IC702	BA6219BFP	IC	1		QR150	UN5213	TRANSISTOR-RESISTOR	1	
IC801	MC14538BF	IC	1		QR305	UN5113	TRANSISTOR-RESISTOR	1	
IC802	NJM2904M	IC	1		QR306	UN5213	TRANSISTOR-RESISTOR	1	
IC803	MC14538BF	IC	1		QR504	UN5213	TRANSISTOR-RESISTOR	1	
IC804	MC74HC11F	IC	1		QR601	UN5214	TRANSISTOR-RESISTOR	1	
IC805, 06	TC7W04FU	IC	2		QR603	UN5214	TRANSISTOR-RESISTOR	1	
IC900	TVHT244FT	IC	1		QR701, 02	UN5114	TRANSISTOR-RESISTOR	2	
IC901	TVHC08FT	IC	1		QR703, 04	UN5214	TRANSISTOR-RESISTOR	2	
L101	VL00319K101	COIL	100UH	1	QR801	UN5213	TRANSISTOR-RESISTOR	1	
L104	VL00319K100	COIL	10UH	1	QR804	UN5214	TRANSISTOR-RESISTOR	1	
L200	VL00407120M	COIL	12UH	1	QR809, 10	UN5214	TRANSISTOR-RESISTOR	2	
L201, 02	VL00407151K	COIL	150UH	2	QR813	UN5214	TRANSISTOR-RESISTOR	1	
L301	VL00407120M	COIL	12UH	1	QR814	UN5114	TRANSISTOR-RESISTOR	1	
L302, 03	VL00407151K	COIL	150UH	2	QR818	UN5114	TRANSISTOR-RESISTOR	1	
L501	VL00319K100	COIL	10UH	1	QR824	UN5114	TRANSISTOR-RESISTOR	1	
L601, 02	VL00319K100	COIL	10UH	2	QR828	UN5114	TRANSISTOR-RESISTOR	1	
L603, 04	VL00319K101	COIL	100UH	2	QR834	UN5114	TRANSISTOR-RESISTOR	1	
L701	VL00319K101	COIL	100UH	1	QR838	UN5114	TRANSISTOR-RESISTOR	1	
P1	VJP3949A080H	CONNECTOR (MALE)	1		QR844-46	UN5214	TRANSISTOR-RESISTOR	3	
P600	VJP3172D003	CONNECTOR (MALE)	1		QR915	UN5214	TRANSISTOR-RESISTOR	1	
P601	VJP3172D002	CONNECTOR (MALE)	1		QR921-23	UN5214	TRANSISTOR-RESISTOR	3	
P602	VJP3172D004	CONNECTOR (MALE)	1		QR925	UN5214	TRANSISTOR-RESISTOR	1	
P603	VJP3172D002	CONNECTOR (MALE)	1		QR940-43	UN5214	TRANSISTOR-RESISTOR	4	
P604	VJP3172D003	CONNECTOR (MALE)	1		R102-06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
P605	VJP3518B002	CONNECTOR (MALE)	1		R107-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
P606	VJP3172D003	CONNECTOR (MALE)	1		R112-14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
P607	VJS3801B010	CONNECTOR (FEMALE)	1		R116	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
P608	VJP3518B002	CONNECTOR (MALE)	1		R118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
P609	VJP3172D002	CONNECTOR (MALE)	1		R120	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
P610	VJP3518B003	CONNECTOR (MALE)	1		R123	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
P611	VJP3518B002	CONNECTOR (MALE)	1		R125-27	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
P612	VJP3172D004	CONNECTOR (MALE)	1		R130	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
P613	VJS3406B015	CONNECTOR (FEMALE)	1		R131	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
P614, 15	VJS3813C017	CONNECTOR (FEMALE)	2		R132	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
P616	VJS3406B019	CONNECTOR (FEMALE)	1		R133	ERJ3GEY822	M. RESISTOR CH 1/16W 8.2K	1	
P617	VJP1232T	CONNECTOR (MALE)	5P		R134	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	1	
P618	VJP3125B002	CONNECTOR (MALE)	1		R135	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
P619	VJP3809E060	CONNECTOR (MALE)	1		R136	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R137	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R262	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R263	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R139	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R264	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R140	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R265	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R141	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		R266	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R142	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R267	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R143	ERJ8GCVJ271	M. RESISTOR CH 1/8W 270	1		R268-70	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R144	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R271	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R145	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R272	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R146	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R273	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R147-50	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4		R274	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R153	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R275	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R154	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R282-85	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	4	
R155	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1		R286	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R158	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R301, 02	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R160	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R303	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R162-64	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		R304	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R167	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R305	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R172	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R306	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R178	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R308-10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R179, 80	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	2		R312	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R181	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R313, 14	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R183	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R315	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R185	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R316	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R188	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R317	ERJ6GEYJ154	M. RESISTOR CH 1/10W 150K	1	
R190	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		R318	ERJ6RBD183	M. RESISTOR CH 1/10W 18K	1	
R191	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R319	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R192	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R320	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R194, 95	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		R327, 28	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R196	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		R330	ERJ8GCVJ1R0	M. RESISTOR CH 1/8W 1	1	
R197	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R332	ERJ8GCVJ1R0	M. RESISTOR CH 1/8W 1	1	
R201	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R334, 35	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R202	ERJ8GCVJ681	M. RESISTOR CH 1/8W 680	1		R337, 38	ERJ8GCVJ1R0	M. RESISTOR CH 1/8W 1	2	
R205	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	1		R339	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R206	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1		R340, 41	ERJ8GCVJ681	M. RESISTOR CH 1/8W 680	2	
R208	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1		R342	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R209	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R344	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R210	ERJ8GCVJ1R5	M. RESISTOR CH 1/8W 1.5	1		R346-49	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	4	
R211	ERJ8GCVJ1R2	M. RESISTOR CH 1/8W 1.2	1		R356, 57	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
R212	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R358	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R213, 14	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R361	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R215	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R362	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R216	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R363	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R217	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R364	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R218	ERJ8GCVJ681	M. RESISTOR CH 1/8W 680	1		R371, 72	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
R221	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	1		R401	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R222	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1		R402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R224	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1		R406	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R225	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R407	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R226	ERJ8GCVJ1R0	M. RESISTOR CH 1/8W 1	1		R408	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R227	ERJ8GCVJ1R2	M. RESISTOR CH 1/8W 1.2	1		R411	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R228	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R412	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R229, 30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R416	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R231	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R417	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R232	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R418	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R237	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R421	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R238	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R422	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R239	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R426	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R240	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R427	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R241	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R428	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R242	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R431	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R243	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R432	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R244	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R436	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R245	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R437	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R246	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R438	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R247	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R441, 42	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R248	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R443	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R249	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R444	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R250	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R445	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R251, 52	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2		R448	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
R253	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R449	ERJ6RBD682	M. RESISTOR CH 1/10W 6.8K	1	
R254	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R451	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R256	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R461	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R260	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1		R468, 69	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R261	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1		R470	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R471	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R472, 73	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R503-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R508	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R509	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R510	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R512	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R513	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R514	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R517, 18	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R519, 20	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R524	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R526	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R527	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R528	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R533	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R534	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R535	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R536	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R537-40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R541	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R542	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R543	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R544	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R545-51	ERJ3GEYJ0R00	M.RESISTOR CH 1/16W 0	7	
R552, 53	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R558	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R559	ERJ3GEYJ511	M.RESISTOR CH 1/16W 510	1	
R580	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R581	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R601	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R602	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R603	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R604	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R605-07	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
R608	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R609	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R620	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R621	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R622	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R623	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R624	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R625	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R626	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R627	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R628	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R629	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R630	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R631, 32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R634	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R636-38	ERJ3GEYJ0R00	M.RESISTOR CH 1/16W 0	3	
R640	ERJ3GEYJ0R00	M.RESISTOR CH 1/16W 0	1	
R642	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R701, 02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R703	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R704	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R706	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R707	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R708	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R710	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R711	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R712, 13	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R714	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R715	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R716, 17	ERJ8GCYJ101	M.RESISTOR CH 1/8W 100	2	
R718	ERJ8GCYJ300	M.RESISTOR CH 1/8W 300	1	
R721	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R722	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R727-30	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R731-34	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	4	
R735	ERJ3GEYJ0R00	M.RESISTOR CH 1/16W 0	1	
R736	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R737, 38	ERJ8GCYJ102	M.RESISTOR CH 1/8W 1K	2	
R747	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R748	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R750	ERJ8GCYJ0R00	M.RESISTOR CH 1/8W 0	1	
R801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R803, 04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R805	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R806	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R810, 11	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R815-17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R819, 20	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R821	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R822	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R823-25	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	3	
R826, 27	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R828	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R829	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R830	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R831, 32	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R833	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R834, 35	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R836	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R837	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R838	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R839	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R840, 41	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R842	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R843, 44	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R845	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R846	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R847, 48	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	2	
R849	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R850	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R851, 52	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R853	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R854, 55	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R856	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R857	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R858	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R859	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R860, 61	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R862	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R863, 64	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R865	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R866	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R867, 68	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	2	
R869	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R870	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R871, 72	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R873	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R874, 75	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R876	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R877	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R878	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R879	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R880	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	1	
R881	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R882-84	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	3	
R885	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R886	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R887	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R890-95	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	6	
R897, 98	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	2	
R900, 01	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R915	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R919-21	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R922	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R923	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R924	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R925	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R926	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R932	ERJ3GEYJ0R00	M.RESISTOR CH 1/16W 0	1	
R933	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R934	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
SW901	YSS0367-02B	SWITCH	1	

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VEP82215A / VEP83434E / VEP83401A / VEP88234G

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG114	EYF6CU	TEST POINT	1		C300	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A
TG300	EYF6CU	TEST POINT	1		C301	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP83401A
					C301, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
TP100-02	EYF6CU	TEST POINT	3		C302	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A
TP107	EYF6CU	TEST POINT	1		C303	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
TP113, 14	EYF6CU	TEST POINT	2		C304	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A
TP116	EYF6CU	TEST POINT	1		C305	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A
TP301, 02	EYF6CU	TEST POINT	2		C306	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A
TP402	EYF6CU	TEST POINT	1		C311, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	VEP83401A
TP501-05	EYF6CU	TEST POINT	5		C400	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
TP601, 02	EYF6CU	TEST POINT	2		C400	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	VEP83401A
TP902	EYF6CU	TEST POINT	1		C401	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C401	ECUX1H821JV	C. CAPACITOR CH 50V 820P	1	VEP83401A
VR101-04	EVM7JGA00B54	V. RESISTOR 50K	4		C402	ECUX1C394KBM	C. CAPACITOR CH 16V 390K	1	VEP83401A
VR401	EVM7JGA00B54	V. RESISTOR 50K	1		C402	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
VR402	EVM7JGA00B24	V. RESISTOR 20K	1		C403	ECUX1C394KBM	C. CAPACITOR CH 16V 390K	1	VEP83401A
VR501, 02	EVM7JGA00B24	V. RESISTOR 20K	2		C404	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	VEP83401A
VR503, 04	EVM7JGA00B14	V. RESISTOR 10K	2		C405	ECUX1H821JV	C. CAPACITOR CH 50V 820P	1	VEP83401A
					C406-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	VEP83401A
X500	VXS0791	CRYSTAL OSCILLATOR	1		C500	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
X601	VXS0919	CRYSTAL OSCILLATOR	1		C501	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
					C502-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
		MISCELLANEOUS			C508, 09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
	VSC4607	SHIELD CASE	1		C600	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
	VMS4911	POST	1		C601	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1	
	XYN26+J6	SCREW	1		C602	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C603	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	
					C604	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
					C605-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
					C627, 28	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	2	
					C700	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
					C701-03	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3	
					C704	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
■ VEP83434E	VIDEO MAIN P.C. BOARD		1 (RTL)		C705	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
■ VEP83401A	VIDEO SUB P.C. BOARD		1 (RTL) FOR VEP83434E		C706	VCK0152	C. CAPACITOR	1	
■ VEP88234G	VIDEO MICOM P.C. BOARD		1 (RTL) FOR VEP83434E		C707	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
					C708	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C1	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A	C711	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C1	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP88234G	C712	VCK0152	C. CAPACITOR	1	
C1	VCK0151	C. CAPACITOR	1		C713	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C2	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C800	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C2	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP88234G	C801	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C2	VCK0151	C. CAPACITOR	1	VEP83401A	C810	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3, C4	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	VEP88234G	C850-54	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C100	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A	C856-60	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C101	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP83401A	C871-75	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C102, 03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C900	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C106	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A	C901	VCK0150	C. CAPACITOR	1	
C150	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C902	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	
C151	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1		C903	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C152	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C904	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	
C153	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C905	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C154, 55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C906	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C156	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		C908	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C157	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C909	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C158	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1		C910	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C159, 60	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C918	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C161	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1		C950	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1	
C162	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C953	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1	
C163	VCK0151	C. CAPACITOR	1		C954-57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C164, 65	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C959	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C166	ECSF1AE225	T. CAPACITOR 10V 2.2U	1						
C167	ECEVOGV470Q	E. CAPACITOR CH 4V 47U	1		D600-02	MA715	DIODE	3	
C168	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		D603	MA143	DIODE	1	
C170	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1						
C200	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A	IC1	M31020EAVP	IC	1	VEP88234G
C200	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		IC1	XC62FP2302M	IC	1	VEP83401A
C201	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	VEP83401A	IC2	MN67373	IC	1	VEP83401A
C201	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC2	XC62FP3002M	IC	1	
C202	ECUX1C394KBM	C. CAPACITOR CH 16V 390K	1	VEP83401A	IC3	L7A1637	IC	1	VEP83401A
C205	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC4	MB81V4260S7	IC	1	VEP83401A
C220, 21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC4, C5	TC7SHU04FU	IC	2	
C250, 51	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC5	TC7W125FU	IC	1	VEP83401A
C260, 61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC6	TC7SHU04FU	IC	1	
C300	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC6	XC62FP2302M	IC	1	VEP83401A

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VEP88234G

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC7	CG46183-104	IC	1	
IC7	M65500FP	IC	1	VEP83401A
IC8	L7A1592	IC	1	
IC8	MB81V4260S7	IC	1	VEP83401A
IC9	L7A1637	IC	1	VEP83401A
IC9, 10	MN4706F	IC	2	
IC11	MN47V76S	IC	1	VEP83401A
IC11	MN67373	IC	1	
IC12	TVHC157FT	IC	1	VEP83401A
IC12	XC62FP2302M	IC	1	
IC13, 02	TC7SH86FU	IC	2	
IC14	TC7W125FU	IC	1	
IC15	TC7SH86FU	IC	1	
IC15	TVHC257FT	IC	1	
IC16	TC7SH86FU	IC	1	
IC16	TVHC367FT	IC	1	
IC17	TVHC245FT	IC	1	
IC17	XC62FP2302M	IC	1	
IC18	M65500FP	IC	1	
IC18	TVHC245FT	IC	1	
IC19	MB81V4260S7	IC	1	
IC22	XC62FP2302P	IC	1	
IC23	XC62FP3002M	IC	1	
IC24	TC7W04FU	IC	1	
IC25	M52660FP	IC	1	
IC26	TC7SH32FU	IC	1	
IC27	UPC2384GA	IC	1	
IC28	TVHC32FT	IC	1	
IC30	TC7S04FU	IC	1	
IC31-33	TC7SH32FU	IC	3	
IC34	TC7S02FU	IC	1	
IC35	TC7SH32FU	IC	1	
IC36	TVHC157FT	IC	1	
IC37	TVHC367FT	IC	1	
IC38	TC7W241FU	IC	1	
IC39, 40	TVHC367FT	IC	2	
IC41	TC7W125FU	IC	1	
IC42	TC7SH32FU	IC	1	
IC43	TC7W241FU	IC	1	
IC44	XC62FP2302M	IC	1	
IC45	TVHC245FT	IC	1	
IC46	TVHC367FT	IC	1	
IC48	XC62EP3302M	IC	1	
IC49	BT864AKPF	IC	1	
IC50	AD817AR	IC	1	
IC51	XC62FP5002M	IC	1	
IC52	MB88344PFV	IC	1	
ID1	VS12838A	IC	1	VEP88234G
L1	VLF1151A132	COIL	1	
L1	VLF1151A132	COIL	1	VEP83401A
L150	VLP0145	COIL	1	
L151	VL00464K6R8	COIL	6.8UH	1
L152	VL00426J3R9	COIL	3.9UH	1
L600	VL00319K470	COIL	47UH	1
L700, 01	VL00319K101	COIL	100UH	2
L702	VL00426J1R8	COIL	1.8UH	1
L704	VL00319K101	COIL	100UH	1
L705	VL00426J1R8	COIL	1.8UH	1
L800	VLP0155	COIL		1
L802	VLP0155	COIL		1
L900	VL00464K6R8	COIL	6.8UH	1
L902	VL00319K101	COIL	100UH	1
L903	ELJNA1R5JF	COIL	1.5UH	1
L904	VLP0155	COIL		1
P1	VJP3808E160	CONNECTOR (MALE)	1	
P1	02VJP4106A120L	CONNECTOR (MALE)	1	VEP88234G
P1	02VJS3806E120	CONNECTOR (FEMALE)	1	VEP83401A
P2	VJS3978A080F	CONNECTOR (FEMALE)	1	
P3	VJP3125B002	CONNECTOR (MALE)	1	
P4	VJP3808E120	CONNECTOR (MALE) THERM	1	
P5	VJS4106A120L	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q600	2SB709A-R	TRANSISTOR	1	
Q700	2SB1114T2ZKL	TRANSISTOR	1	
QR600	UN2214	TRANSISTOR-RESISTOR	1	
QR850, 51	UN2214	TRANSISTOR-RESISTOR	2	
R1	ERJ3GEYJ220	M. RESISTOR CH 1/16W	22	1 VEP83401A
R2-R7	EXB24V100J	COMBI. R-R	10	6 VEP83401A
R8, R9	ERJ3GEYJ220	M. RESISTOR CH 1/16W	22	2 VEP83401A
R10-15	EXB24V100J	COMBI. R-R	10	6 VEP83401A
R16	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R16	EXB24V100J	COMBI. R-R	10	1 VEP83401A
R17	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R17	EXB24V100J	COMBI. R-R	10	1 VEP83401A
R20-24	EXB24V100J	COMBI. R-R	10	5
R25	ERJ3GEYJ100	M. RESISTOR CH 1/16W	10	1
R26	EXB24V100J	COMBI. R-R	10	1
R27-30	ERJ3GEYJ100	M. RESISTOR CH 1/16W	10	4
R31	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R34-37	EXB24V100J	COMBI. R-R	10	4
R38, 39	ERJ3GEYJ100	M. RESISTOR CH 1/16W	10	2
R41	EXB24V100J	COMBI. R-R	10	1
R43	EXB24V100J	COMBI. R-R	10	1
R45	EXB24V100J	COMBI. R-R	10	1
R47	EXB24V100J	COMBI. R-R	10	1
R100	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R100	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 VEP83401A
R101	EXB24V100J	COMBI. R-R	10	1 VEP83401A
R102	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R107, 08	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820	2
R150	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390	1
R151	ERJ3GEYJ152	M. RESISTOR CH 1/16W	1.5K	1
R152	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1
R153	ERJ3GEYJ392	M. RESISTOR CH 1/16W	3.9K	1
R154, 55	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2
R156	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R159	ERJ3GEYJ270	M. RESISTOR CH 1/16W	27	1
R200	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 VEP83401A
R202	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R203	ERJ3GEYJ180	M. RESISTOR CH 1/16W	18	1
R204	ERJ3GEYJ181	M. RESISTOR CH 1/16W	180	1
R210-13	EXB24V103J	COMBI. R-R	10K	4
R220-23	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	4
R224, 25	ERJ3GEYJ181	M. RESISTOR CH 1/16W	180	2
R250, 51	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2
R300-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	4 VEP83401A
R314	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1 VEP83401A
R400	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R400	ERJ3GEYJ180	M. RESISTOR CH 1/16W	18	1 VEP83401A
R401	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390	1 VEP83401A
R402	ERJ3GEYJ220	M. RESISTOR CH 1/16W	22	1 VEP83401A
R403	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390	1 VEP83401A
R404	ERJ3GEYJ180	M. RESISTOR CH 1/16W	18	1 VEP83401A
R500-02	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	3
R503	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R600	ERJ6GEYJ122	M. RESISTOR CH 1/10W	1.2K	1
R601-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	3
R604-06	ERJ6RBD472	M. RESISTOR CH 1/10W	4.7K	3
R607-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R611	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R612	ERJ3GEYJ472	M. RESISTOR CH 1/16W	4.7K	1
R613	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1
R614-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	9
R623, 24	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2
R625	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1
R626	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R627	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1
R629	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R630	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1
R631	ERJ3GEYJ472	M. RESISTOR CH 1/16W	4.7K	1
R632	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	1
R633	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R636	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R700, 01	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	2
R702	ERJ3RED750	M. RESISTOR CH 3W	75	1

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C41	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C42, 43	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C44	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C45, 46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C47	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C48-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C51	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C52, 53	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C102	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C104	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C105, 06	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C107	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C109	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C111	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C112, 13	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C114	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C116	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C118	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C119, 20	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C121	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C123	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C125	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C126, 27	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C128	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C151-58	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C159	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C160-69	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C170	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C171, 72	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C208	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C210	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C211	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C213	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C214, 15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C217	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C223, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C231	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C232	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C234	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C235, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C240, 41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C243, 44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C246	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C251, 52	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2	
C254, 55	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2	
C257-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C261, 62	ECST1AY475	T. CAPACITOR CH 10V 4.7U	2	
C264	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C266	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C267, 68	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C270	ECUX1C224KBN	C. CAPACITOR CH 16V 220K	1	
C271-74	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	4	
C281-84	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C301-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C309, 10	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2	
C311, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C313	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C314-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C318	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C319	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C320	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C321	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C322	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C323-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C332, 33	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2	
C334, 35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C336	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C337-40	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C341	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C342	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C348, 49	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C681-84	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C351, 52	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C701	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C401-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7		C702	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C408	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C703, 04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C409	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C706-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C411-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6		C710-13	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	4	
C417	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1		C714-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C418-21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		C717	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C423	ECUX1H681JCV	C. CAPACITOR CH 50V 680P	1		C718	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C424	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C719-21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C425	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		C722	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C426	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C723-35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	13	
C427	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C736	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C429	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C737	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C432	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C738, 39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C433	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		C740-43	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	4	
C435	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C744-46	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C436	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C747	ECUX1C224KBN	C. CAPACITOR CH 16V 220K	1	
C440	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C748	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1	
C441, 42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C749	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C444	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C750	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1	
C446-50	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5		C751-53	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C452-55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		C754	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C501	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C755, 56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C502	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C757	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C503, 04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C758-60	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C506-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		C762-66	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C510-13	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	4		C767	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C514-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		C768	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C517	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C771	ECOF1H390JC	C. CAPACITOR 50V 39P	1	
C518	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C801	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C519-21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		C802	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C522	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C803	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C523-35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	13		C804	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C536	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C805	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C537	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C806	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C538, 39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C807	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C540-43	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	4		C808	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C544-46	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		C809-29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	21	
C547	ECUX1C224KBN	C. CAPACITOR CH 16V 220K	1						
C548	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1		D201-04	MA142WK	DIODE	4	
C549	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		D402	MA715	DIODE	1	
C550	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1		D601-04	MA142WK	DIODE	4	
C551-53	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3						
C554	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		FL1	VLF0941C223	FILTER	1	
C555, 56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2						
C557	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC1	NVHC125FT	IC	1	
C558-60	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		IC2	TC7W04FU	IC	1	
C562-66	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5		IC3, C4	XC62AP5002P	IC	2	
C567	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC5	XC62AP3002P	IC	1	
C568-70	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		IC6	XC62AP5002P	IC	1	
C571	ECOF1H390JC	C. CAPACITOR 50V 39P	1		IC7-10	XC62DN5002P	IC	4	
C608	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC11-13	XC62AP3002P	IC	3	
C610	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC14	XC62AP3002M	IC	1	
C611	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC15	XC62AP5002M	IC	1	
C613	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC151	UPC5102GS030	IC	1	
C614, 15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC152	TC7S04FU	IC	1	
C617	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC153	UPC5102GS030	IC	1	
C623, 24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC154	TC7S04FU	IC	1	
C631	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC201, 02	TC4S69F	IC	2	
C632	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC205, 06	TC4S69F	IC	2	
C634	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC208	UPC1663G	IC	1	
C635, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC301	AN3730FA	IC	1	
C640, 41	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC302	UPC1663G	IC	1	
C643, 44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC303	AN3730FA	IC	1	
C646	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC304	UPC1663G	IC	1	
C651, 52	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2		IC401	TC7S04FU	IC	1	
C654, 55	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2		IC402	NJM082BV	IC	1	
C657-59	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		IC403	TC7S86FU	IC	1	
C661, 62	ECST1AY475	T. CAPACITOR CH 10V 4.7U	2		IC404	MC14053BD	IC	1	
C664	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		IC405	UPC5102GS030	IC	1	
C666	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		IC406	TC4W53FU	IC	1	
C667, 68	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2		IC407	UPC1663G	IC	1	
C670	ECUX1C224KBN	C. CAPACITOR CH 16V 220K	1		IC409	TC7S04FU	IC	1	
C671-74	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	4		IC411	UPC5102GS030	IC	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC501	AN3740FAP	IC	1		Q227	2SC2954	TRANSISTOR	1	
IC502	MC14053BD	IC	1		Q231-34	2SK508K512	TRANSISTOR	4	
IC503	AN3745FBP-A	IC	1		Q235-38	2SD1979	TRANSISTOR	4	
IC504	TC4W53FU	IC	1		Q301	2SD1979	TRANSISTOR	1	
IC505	NVHC157FT	IC	1		Q302	2SC3935	TRANSISTOR	1	
IC601, 02	TC4S69F	IC	2		Q303	2SD1979	TRANSISTOR	1	
IC605, 06	TC4S69F	IC	2		Q304-07	2SC3935	TRANSISTOR	4	
IC608	UPC1663G	IC	1		Q308	2SD1979	TRANSISTOR	1	
IC701	AN3740FAP	IC	1		Q309	2SC3935	TRANSISTOR	1	
IC702	MC14053BD	IC	1		Q310	2SD1979	TRANSISTOR	1	
IC703	AN3745FBP-A	IC	1		Q311-14	2SC3935	TRANSISTOR	4	
IC704	TC4W53FU	IC	1		Q401	2SC3930-B	TRANSISTOR	1	
IC801	NVHC08FT	IC	1		Q403-05	2SC3935	TRANSISTOR	3	
IC802	TC7S04FU	IC	1		Q406	2SD1979	TRANSISTOR	1	
IC803	NJM064V	IC	1		Q407	2SC3930-B	TRANSISTOR	1	
IC804	NVHC125FT	IC	1		Q408	2SD1979	TRANSISTOR	1	
IC805	TC7W00FU	IC	1		Q409	2SC3935	TRANSISTOR	1	
IC806	NJM064V	IC	1		Q410	2SB1218A-R	TRANSISTOR	1	
IC807	TC7W02FU	IC	1		Q411, 12	2SC3930-B	TRANSISTOR	2	
IC808	NVHC32FT	IC	1		Q413	2SC3935	TRANSISTOR	1	
IC809	TVHT04FT	IC	1		Q414	2SB1218A-R	TRANSISTOR	1	
IC810	NVHC125FT	IC	1		Q416	2SC3935	TRANSISTOR	1	
IC811	NVHC00FT	IC	1		Q417	2SC3930-B	TRANSISTOR	1	
IC812	MB88344PFV	IC	1		Q501, 02	2SB1219A-R	TRANSISTOR	2	
IC813	TC4W53FU	IC	1		Q504	2SB1219A-R	TRANSISTOR	1	
L1, L2	VL00319K220	COIL	22UH	2	Q505	2SC3930-B	TRANSISTOR	1	
L3	VL00319K101	COIL	100UH	1	Q602-05	2SD1979	TRANSISTOR	4	
L101-08	VL00163J2R2	COIL	2.2UH	8	Q607	2SC3935	TRANSISTOR	1	
L151, 52	VL00163J1R0	COIL	1UH	2	Q608, 09	2SC2954	TRANSISTOR	2	
L201-04	VL00163J121	COIL	120UH	4	Q610	2SC3935	TRANSISTOR	1	
L301	VL00163J1R0	COIL	1UH	1	Q612	2SB1218A-R	TRANSISTOR	1	
L303	VL00163JR22	COIL	0.22UH	1	Q613	2SA1532-B	TRANSISTOR	1	
L304	VL00163J1R0	COIL	1UH	1	Q614	2SC2954	TRANSISTOR	1	
L306	VL00163JR22	COIL	0.22UH	1	Q616-19	2SD1979	TRANSISTOR	4	
L400	VL00163JR22	COIL	0.22UH	1	Q621, 22	2SC2954	TRANSISTOR	2	
L401	VL00163J1R0	COIL	1UH	1	Q625	2SB1218A-R	TRANSISTOR	1	
L402	VL00163J470	COIL	47UH	1	Q626	2SA1532-B	TRANSISTOR	1	
L403	VL00163JR22	COIL	0.22UH	1	Q627	2SC2954	TRANSISTOR	1	
L601-04	VL00163J121	COIL	120UH	4	Q631-34	2SK508K512	TRANSISTOR	4	
P1	VJP3978A080E	CONNECTOR (MALE)	1		Q635-38	2SD1979	TRANSISTOR	4	
P2	VJS3898B024	CONNECTOR (FEMALE)	1		Q701, 02	2SB1219A-R	TRANSISTOR	2	
P3	VJS3899D013	CONNECTOR (FEMALE)	1		Q704	2SB1219A-R	TRANSISTOR	1	
P4, P5	VJP3358C012	CONNECTOR (MALE)	2		Q705	2SC3930-B	TRANSISTOR	1	
Q1	2SB1114T2ZKL	TRANSISTOR	1		Q801-04	2SB1218A-R	TRANSISTOR	4	
Q2	2SD1280-S	TRANSISTOR	1		QR1-R4	UN5213	TRANSISTOR-RESISTOR	4	
Q3	2SB1218A-R	TRANSISTOR	1		QR101-04	UN5213	TRANSISTOR-RESISTOR	4	
Q4, Q5	2SB1114T2ZKL	TRANSISTOR	2		QR301	UN5213	TRANSISTOR-RESISTOR	1	
Q6	2SD1280-S	TRANSISTOR	1		QR302	UN5113	TRANSISTOR-RESISTOR	1	
Q7	2SB1218A-R	TRANSISTOR	1		QR401	UN5213	TRANSISTOR-RESISTOR	1	
Q8	2SB1114T2ZKL	TRANSISTOR	1		QR801, 02	UN5213	TRANSISTOR-RESISTOR	2	
Q9	2SD1280-S	TRANSISTOR	1		R1, R2	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
Q10	2SB1218A-R	TRANSISTOR	1		R4	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
Q101	2SB709-R	TRANSISTOR	1		R6	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
Q102, 03	2SC3735B35	TRANSISTOR	2		R7	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
Q104	2SB709-R	TRANSISTOR	1		R8	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
Q106, 07	2SC3735B35	TRANSISTOR	2		R9	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
Q109	2SB709-R	TRANSISTOR	1		R10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
Q110, 11	2SC3735B35	TRANSISTOR	2		R12	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
Q112	2SB709-R	TRANSISTOR	1		R14	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
Q113, 14	2SC3735B35	TRANSISTOR	2		R15	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
Q151-56	2SC3935	TRANSISTOR	6		R16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
Q202-05	2SD1979	TRANSISTOR	4		R18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
Q207	2SC3935	TRANSISTOR	1		R19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
Q208, 09	2SC2954	TRANSISTOR	2		R20	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
Q210	2SC3935	TRANSISTOR	1		R21	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
Q212	2SB1218A-R	TRANSISTOR	1		R22, 23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
Q213	2SA1532-B	TRANSISTOR	1		R24	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
Q214	2SC2954	TRANSISTOR	1		R25	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
Q216-19	2SD1979	TRANSISTOR	4		R26, 27	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
Q221, 22	2SC2954	TRANSISTOR	2		R28	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
Q225	2SB1218A-R	TRANSISTOR	1		R103	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
Q226	2SA1532-B	TRANSISTOR	1		R104	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
					R105	ERJ6GEYJ5R6	M.RESISTOR CH 1/10W 5.6	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R106	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R264	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R107	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R266	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R108, 09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R267	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R110	ERJ6GEYG270	M.RESISTOR CH 1/10W 27	1		R268	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R111	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R269	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R112	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R270	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R115	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1		R271	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R116	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R272	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R117	ERJ6GEYJ5R6	M.RESISTOR CH 1/10W 5.6	1		R273	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R118	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R274	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R119	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R275, 76	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R120, 21	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R277	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R122	ERJ6GEYG270	M.RESISTOR CH 1/10W 27	1		R278	ERJ14YJ270H	M.RESISTOR CH 1/4W 27	1	
R123	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R280	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R124	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R287, 88	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R125	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1		R290	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R126	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R293-96	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	4	
R127	ERJ6GEYJ5R6	M.RESISTOR CH 1/10W 5.6	1		R301	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R128	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R129	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R304	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R130, 31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R305	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R132	ERJ6GEYG270	M.RESISTOR CH 1/10W 27	1		R306	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R133	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R307-09	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R134	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R310	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R135	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1		R311, 12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R136	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R137	ERJ6GEYJ5R6	M.RESISTOR CH 1/10W 5.6	1		R314, 15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R138	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R316	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R139	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R317	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R140, 41	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R318-20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R142	ERJ6GEYG270	M.RESISTOR CH 1/10W 27	1		R321, 22	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R143	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R323	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R144	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R151	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R325	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R152, 53	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2		R326	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R154	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R327	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R155	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R329	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R156-58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3		R330	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R159, 60	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2		R331	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R161	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R332	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R162	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R333-35	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R163, 64	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2		R336	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R337, 38	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R167-69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3		R339	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R201, 02	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2		R340, 41	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R203-06	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4		R342	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R207, 08	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2		R343	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R209-11	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3		R344-46	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R212, 13	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2		R347, 48	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R214-16	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3		R349	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R218	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R350	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R219	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R351	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R220	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R352, 53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R221	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R357	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R222, 23	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2		R361, 62	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R224	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R363, 64	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R225, 26	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2		R401, 02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R227	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R405, 06	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R407	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R230	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R408, 09	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R235, 36	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R410	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R237	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R412, 13	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R238, 39	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2		R414	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R240	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R415	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R241	ERJ14YJ270H	M.RESISTOR CH 1/4W 27	1		R416	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R242, 43	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2		R417, 18	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R244	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R419, 20	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R245-48	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4		R421, 22	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R249, 50	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2		R423, 24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R252, 53	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2		R425	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R256, 57	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R426, 27	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	2	
R258, 59	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2		R428	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R260	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R429	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R261	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R430	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R262, 63	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2		R434	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R435	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R571	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R436	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R572	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R437	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R573	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R438	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1		R574	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R439	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1		R575	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R440	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1		R576	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R442	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R577	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R447, 48	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2		R578, 79	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R450	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R580, 81	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R461	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1		R582	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R462	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R601, 02	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R463, 64	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2		R603-06	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R466	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R607, 08	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R467	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R609-11	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R468	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R612, 13	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R470	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R614-16	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R475	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R618	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R476	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R619	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R481	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R620	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R484-86	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3		R621	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R490	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R622, 23	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R491	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R624	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R492, 93	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2		R625, 26	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R495, 96	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2		R627	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R499	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R629	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R501	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R630	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R502, 03	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2		R635, 36	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R505, 06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R637	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R507	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R638, 39	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R508	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R640	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R509	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R641	ERJ14YJ270H	M.RESISTOR CH 1/4W 27	1	
R510	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R642, 43	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R511	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1		R644	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R512	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1		R645-48	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R513	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1		R649, 50	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R514	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R652, 53	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R515	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R656, 57	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R516	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R658, 59	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R517	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R660	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R518	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R661	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R519, 20	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2		R662, 63	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R521	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R664	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R522, 23	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2		R666	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R524	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1		R667	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R525	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1		R668	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R526	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R669	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R529	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R670	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R530	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R671	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R531	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1		R672	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R532	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R673	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R533	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R674	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R537-39	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	3		R675, 76	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R540	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R677	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R541	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R678	ERJ14YJ270H	M.RESISTOR CH 1/4W 27	1	
R543, 44	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R680	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R545	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R687, 88	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R546	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R690	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R547	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R693-96	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	4	
R548	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1		R701	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R549	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1		R702, 03	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R550	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R705, 06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R551	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1		R707	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R552	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R708	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R554	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R709	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R555	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R710	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R556	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R711	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R558	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R712	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R713	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R561	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R714	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R562	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1		R715	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R564	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R716	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R567	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1		R717	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R568	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R718	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R569	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1		R719, 20	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R570	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R721	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D6001	MA142K	DIODE	1		R6025	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
D6002, 03	MA728	DIODE	2		R6026	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
D6008, 09	MA728	DIODE	2		R6029	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
D6012, 13	MA142K	DIODE	2		R6030-36	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	7	
D6021	MA142K	DIODE	1		R6037-39	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
D6801	MA143	DIODE	1		R6040-44	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	5	
D6802	MA8024	DIODE	1		R6045, 46	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
					R6047, 48	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
IC6001	M37702S4AFP	IC	1		R6049	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
IC6002	MN13821-S	IC	1		R6050	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
IC6003	TVHC04FT	IC	1		R6053	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
IC6004	TVHC32FT	IC	1		R6055	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
IC6005	TVHC573FT	IC	1		R6056	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IC6006	MSM27C101ZBG	IC	1		R6057-59	ERJ3GEYR000	M. RESISTOR CH 1/16W 0	3	
IC6006	VS12810C	IC	1		R6101	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
IC6007	TC7SH08FU	IC	1		R6102-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
IC6008	TVHC138FT	IC	1		R6130	ERJ3GEYR000	M. RESISTOR CH 1/16W 0	1	
IC6009	UPD6456T611Y	IC	1		R6133	ERJ3GEYR000	M. RESISTOR CH 1/16W 0	1	
IC6010	STK12C68S45	IC	1		R6134	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
IC6011, 12	TVHT541FT	IC	2		R6201-05	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	5	
IC6013	TC7SH32FU	IC	1		R6206-10	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	5	
IC6101	MC74HC4053F	IC	1		R6211	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
IC6201	TE7751	IC	1		R6212	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
IC6301	S8420BF	IC	1		R6213, 14	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
IC6302	UPD4992GS	IC	1		R6219, 20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
IC6801	MN51040VP1	IC	1		R6221, 22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
IC6802	UPC393G2	IC	1		R6224	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
IC6803	NJM4558M	IC	1		R6225	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
					R6226	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
IF6006	VJF1047	IC SOCKET	1		R6227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
IS6006	VJS3427X032	CONNECTOR (FEMALE)	1		R6229	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
					R6230	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
L6001	VL00319K100	COIL 100H	1		R6231	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
L6002	VL00163J270	COIL 270H	1		R6232	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
L6102, 03	VL00163J470	COIL 470H	2		R6233-36	ERJ6GEYJ271	M. RESISTOR CH 1/10W 270	4	
L6801	VL00163J470	COIL 470H	1		R6237	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
L6802	VL00319K101	COIL 1000H	1		R6238-40	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
					R6241	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
P6001	VJP3657	CONNECTOR (MALE)	1		R6242-44	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
P6002	VJP3125B006	CONNECTOR (MALE) 6P	1		R6262	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
					R6301, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
Q6801	2SD1819A-R	TRANSISTOR	1		R6303	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
					R6304-11	ERJ3GEYR000	M. RESISTOR CH 1/16W 0	8	
QR6001, 02	UN5213	TRANSISTOR-RESISTOR	2		R6801	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
QR6003	UN5211	TRANSISTOR-RESISTOR	1		R6802	ERJ3GEYR000	M. RESISTOR CH 1/16W 0	1	
QR6004, 05	UN5213	TRANSISTOR-RESISTOR	2		R6803, 04	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2	
QR6101	UN5213	TRANSISTOR-RESISTOR	1		R6805	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
QR6201-04	UN5114	TRANSISTOR-RESISTOR	4		R6806	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
QR6206	UN5213	TRANSISTOR-RESISTOR	1		R6807	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
QR6207	UN5114	TRANSISTOR-RESISTOR	1		R6808	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
QR6208-14	UN5213	TRANSISTOR-RESISTOR	7		R6809	ERJ6RBD682	M. RESISTOR CH 1/10W 6.8K	1	
QR6216	UN5213	TRANSISTOR-RESISTOR	1		R6810	ERJ6RBD912	M. RESISTOR CH 1/10W 9.1K	1	
					R6811	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R6001	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R6812, 13	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	
R6002	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R6814	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6003	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R6816	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R6005	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R6817	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6006	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R6818	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6007	ERJ6RBD473	M. RESISTOR CH 1/10W 47K	1		R6819	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R6008	ERJ6RBD273	M. RESISTOR CH 1/10W 27K	1		R6820	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R6009	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R6821	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R6010	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R6822	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R6011	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R6823	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R6012	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R6824	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1	
R6013	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R6826	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R6014	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R6827, 28	ERJ3GEYR000	M. RESISTOR CH 1/16W 0	2	
R6015	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R6829	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R6016, 17	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R6839	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1	
R6018	ERJ6RBD473	M. RESISTOR CH 1/10W 47K	1		R6840	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1	
R6019, 20	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	2		R6845	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R6021	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1						
R6022	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		SW6001	VSS0342	SWITCH	1	
R6023	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1						
					TG6001	EYF6CU	TEST POINT	1	

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VEP80272A / VEP89131A					Ref.No.					Part No.					Part Name & Description					Pcs					Remarks				
TP6001-04					EYF6CU					TEST POINT					4														
TP6301					EYF6CU					TEST POINT					1														
VC6001					VCV0049					TRIMMER					1														
VC6301					ECRJA020E12					TRIMMER					1														
X6001					VSX0499					CRYSTAL OSCILLATOR					1														
X6301					VSX0602					CRYSTAL OSCILLATOR					1														
X6801					VSX0498					CRYSTAL OSCILLATOR					1														
X6802					VSX0614					CRYSTAL OSCILLATOR					1														
										MISCELLANEOUS																			
					XSN2+6FX					SCREW					3														
					VG046J7					BOARD NUMBER PLATE (2)					1														
					XNG2E					NUT					1														

VEP89131A / VEP80A82B

[illegible]

VEP80A82B / VEP84317A

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4514	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		IC4102	NJM062M-D	IC	1	
C4515	ECEVICV1000	E.CAPACITOR CH 16V 10U	1		IC4103	NJM4580ED	IC	1	
C4516, 17	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2		IC4105	MC14052BF	IC	1	
C4519	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		IC4201	NJM4580ED	IC	1	
C4520	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1		IC4202	NJM062M-D	IC	1	
C4521, 22	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2		IC4203	NJM4580ED	IC	1	
C4523, 24	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2		IC4205	MC14052BF	IC	1	
C4602	ECEVOJV4700	E.CAPACITOR CH6.3V 47U	1		IC4501	MC14053BF	IC	1	
C4603	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		IC4502	NJM062M-D	IC	1	
C4604	ECEVOJV3300	E.CAPACITOR CH6.3V 33U	1		IC4503	CXA1102M	IC	1	
C4605	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		IC4602	MN13821-R	IC	1	
C4606, 07	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2		IC4603	UPD75328G769	IC	1	
C4608-10	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	3		IC4701	LM2577MX-ADJ	IC	1	
C4611	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		IC4702	NJM062M-D	IC	1	
C4612	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		IC4703	MC74HC08AF	IC	1	
C4701	ECA1EF0820	E.CAPACITOR 25V 82U	1		IC4704	NJM386M	IC	1	
C4702	ECEV1HV3R3Q	E.CAPACITOR CH 50V 3.3U	1		IC4901	MB621926	IC	1	
C4703	ECA1JF0560	E.CAPACITOR 63V 56U	1		IC4902	MB814400C70L	IC	1	
C4704	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1		IC4903	T74VHCT244F	IC	1	
C4705	ECA1JF0560	E.CAPACITOR 63V 56U	1		IC4904	AK4320VM	IC	1	
C4707	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		IC4905	TC7W04FU	IC	1	
C4708	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1		IC4906, 07	NJM062M-D	IC	2	
C4709	ECEVICV4700	E.CAPACITOR CH 16V 47U	1		IC4908	XC62FP5002P	IC	1	
C4710	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1						
C4711	ECEVICV4700	E.CAPACITOR CH 16V 47U	1		L4003, 04	VL00163J100	COIL 10UH	2	
C4712, 13	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2		L4101, 02	VL00163J100	COIL 10UH	2	
C4901-05	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	5		L4201, 02	VL00163J100	COIL 10UH	2	
C4906	ECEVICV1000	E.CAPACITOR CH 16V 10U	1		L4701	VL00319K680	COIL	1	
C4907-09	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	3		L4702	VL00621	COIL	1	
C4910	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1						
C4911	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		P4001	VEE0D55	AUDIO-REAR CABLE	1	
C4912	ECEVOJV4700	E.CAPACITOR CH6.3V 47U	1		P4101	VJS2907D020	CONNECTOR (FEMALE)	1	
C4913, 14	ECEVOJN1000	E.CAPACITOR CH6.3V 10U	2		P4102	VJS2907D008	CONNECTOR (FEMALE)	1	
C4915, 16	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2		P4103	VJP3172B006	CONNECTOR (MALE) 6P	1	
C4917-21	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	5		P4104	VJP3172D003	CONNECTOR (MALE)	1	
C4922	ECEVOJV4700	E.CAPACITOR CH6.3V 47U	1		P4105	VJP3172D002	CONNECTOR (MALE)	1	
C4923	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1		P4106	VJP3125B004	CONNECTOR (MALE)	1	
					P4107	VJP3125B006	CONNECTOR (MALE) 6P	1	
					P4108	VJP3172D004	CONNECTOR (MALE)	1	
D4001, 02	MA143	DIODE	2						
D4004	MA143	DIODE	1		PC4001	MCD5223	IC	1	
D4101, 02	MA143	DIODE	2						
D4103	MA142K	DIODE	1		04001	2SD1819A-R	TRANSISTOR	1	
D4105, 06	MA142K	DIODE	2		04002	2SD602A-S	TRANSISTOR	1	
D4107	MA714	DIODE	1		04003	2SB710A-R	TRANSISTOR	1	
D4201, 02	MA143	DIODE	2		04007	2SB1219-R	TRANSISTOR	1	
D4203	MA142K	DIODE	1		04009, 10	2SD1979	TRANSISTOR	2	
D4205, 06	MA142K	DIODE	2		04101-03	2SD1819A-R	TRANSISTOR	3	
D4207	MA714	DIODE	1		04107	2SD1979	TRANSISTOR	1	
D4601	MA142K	DIODE	1		04110	2SD1979	TRANSISTOR	1	
D4604, 05	MA714	DIODE	2		04111	2SB1220-R	TRANSISTOR	1	
D4606	MA142K	DIODE	1		04201-03	2SD1819A-R	TRANSISTOR	3	
D4701	EC10GS1012	DIODE	1		04207	2SD1979	TRANSISTOR	1	
D4702	MA143	DIODE	1		04210	2SD1979	TRANSISTOR	1	
D4703	MA714	DIODE	1		04211	2SB1220-R	TRANSISTOR	1	
FL4501	VLF1069	FILTER	1		04302	2SD1979	TRANSISTOR	1	
					04305-07	2SD1979	TRANSISTOR	3	
IC4001	UPC5022GA144	IC	1		04402	2SD1979	TRANSISTOR	1	
IC4002	MC14053BF	IC	1		04405-07	2SD1979	TRANSISTOR	3	
IC4003	MC74HC04AF	IC	1		04702, 03	2SD1979	TRANSISTOR	2	
IC4004	MC14053BF	IC	1		04704	2SD874-R	TRANSISTOR	1	
IC4005	NJM2904M	IC	1		04705	2SB766-R	TRANSISTOR	1	
IC4006	NJM062M-D	IC	1						
IC4007	XC62AP3002P	IC	1		QR4001	UN5113	TRANSISTOR-RESISTOR	1	
IC4008	AK4503VF	IC	1		QR4010	UN5213	TRANSISTOR-RESISTOR	1	
IC4009	BA6138F	IC	1		QR4012	UN5213	TRANSISTOR-RESISTOR	1	
IC4010	NJM062M-D	IC	1		QR4013	UN5113	TRANSISTOR-RESISTOR	1	
IC4011	MC14052BF	IC	1		QR4102, 03	UN5113	TRANSISTOR-RESISTOR	2	
IC4012	MC14053BF	IC	1		QR4104	UN521F	TRANSISTOR-RESISTOR	1	
IC4013	NJM2073M	IC	1		QR4105	UN5113	TRANSISTOR-RESISTOR	1	
IC4014	TC7W125FU	IC	1		QR4106	UN521F	TRANSISTOR-RESISTOR	1	
IC4015-17	NJM062M-D	IC	3		QR4107	UN5213	TRANSISTOR-RESISTOR	1	
IC4018	NJM4580ED	IC	1		QR4108	UN5113	TRANSISTOR-RESISTOR	1	
IC4019	NJM062M-D	IC	1		QR4201	UN5213	TRANSISTOR-RESISTOR	1	
IC4101	NJM4580ED	IC	1		QR4202, 03	UN5113	TRANSISTOR-RESISTOR	2	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR4204	UN521F	TRANSISTOR-RESISTOR	1		R4139	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
QR4205	UN5113	TRANSISTOR-RESISTOR	1		R4142	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
QR4206	UN521F	TRANSISTOR-RESISTOR	1		R4144	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
QR4207	UN5213	TRANSISTOR-RESISTOR	1		R4145	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
QR4208	UN5113	TRANSISTOR-RESISTOR	1		R4146	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
QR4301, 02	UN5113	TRANSISTOR-RESISTOR	2		R4147	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1	
QR4303, 04	UN5213	TRANSISTOR-RESISTOR	2		R4148	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
QR4401, 02	UN5113	TRANSISTOR-RESISTOR	2		R4149, 50	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	2	
QR4403, 04	UN5213	TRANSISTOR-RESISTOR	2		R4151, 52	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	2	
QR4507	UN5113	TRANSISTOR-RESISTOR	1		R4153, 54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
QR4508	UN5213	TRANSISTOR-RESISTOR	1		R4155	ERJ3GEY6471	M. RESISTOR CH 1/16W 470	1	
QR4601	UN5213	TRANSISTOR-RESISTOR	1		R4160	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
QR4901	UN5213	TRANSISTOR-RESISTOR	1		R4161	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1	
					R4162	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
					R4163	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1	
R4001	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R4164-66	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	3	
R4002	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		R4183	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4003	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R4184	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	1	
R4004, 05	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		R4185	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4006, 07	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2		R4186	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4023	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R4187	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	1	
R4024	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1		R4189	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R4025	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R4190	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R4026	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1		R4191	ERJ3GEY6471	M. RESISTOR CH 1/16W 470	1	
R4027	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R4192	ERJ6GEYJ1R0	M. RESISTOR CH 1/10W 1	1	
R4031	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R4193-96	ERJ6GEYJ150	M. RESISTOR CH 1/10W 15	4	
R4035	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R4197	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4036	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1		R4198	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R4037	ERJ3GEY6822	M. RESISTOR CH 1/16W 8.2K	1		R4199	ERJ3GEYJ752	M. RESISTOR CH 1/16W 7.5K	1	
R4061, 62	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R4201	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R4064, 65	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	2		R4202	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R4066	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R4203	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4068, 69	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		R4206	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	1	
R4070, 71	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	2		R4210	ERJ3GEY6822	M. RESISTOR CH 1/16W 8.2K	1	
R4073	ERJ3GEY6332	M. RESISTOR CH 1/16W 3.3K	1		R4211	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R4079	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4212	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	1	
R4081-83	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3		R4213	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4084, 85	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R4214	ERJ3GEY6152	M. RESISTOR CH 1/16W 1.5K	1	
R4086	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1		R4215	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R4087	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1		R4216	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R4088	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4217	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R4089	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R4218, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R4090-93	ERJ6GEYJ150	M. RESISTOR CH 1/10W 15	4		R4220	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4094	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4221	ERJ3GEYJ155	M. RESISTOR CH 1/16W 1.5M	1	
R4095	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R4222	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4101	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R4223	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4102	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1		R4224	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4103	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R4225	ERJ3GEY6822	M. RESISTOR CH 1/16W 8.2K	1	
R4106	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	1		R4226	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4110	ERJ3GEY6822	M. RESISTOR CH 1/16W 8.2K	1		R4230	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1	
R4111	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1		R4231, 32	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4112	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	1		R4233	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R4113	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R4234	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1	
R4114	ERJ3GEY6152	M. RESISTOR CH 1/16W 1.5K	1		R4235	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R4115	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R4236	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1	
R4116	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R4237	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R4117	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R4242	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R4118, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R4244	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R4120	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R4245	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4121	ERJ3GEYJ155	M. RESISTOR CH 1/16W 1.5M	1		R4246	ERJ3GEYJ105	M. RESISTOR CH 1/10W 1M	1	
R4122	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4247	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1	
R4123	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R4248	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
R4124	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R4249, 50	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	2	
R4125	ERJ3GEY6822	M. RESISTOR CH 1/16W 8.2K	1		R4251, 52	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	2	
R4126	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R4253, 54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R4127	ERJ3GEY6102	M. RESISTOR CH 1/16W 1K	1		R4255	ERJ3GEY6471	M. RESISTOR CH 1/16W 470	1	
R4128	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R4260	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R4129	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1		R4261	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1	
R4130	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R4262	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R4131, 32	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R4263	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1	
R4133	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R4264-66	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	3	
R4134	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1		R4283	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4135	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R4284	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	1	
R4136	ERJ3GEY6682	M. RESISTOR CH 1/16W 6.8K	1		R4285	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4137	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R4286	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4138	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1						

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4604	ERJ6RBD561	M. RESISTOR CH 1/10W 560	1	
R4605-39	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	35	
R4640	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R4643-45	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R4646-48	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R4649	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R4701	ERJ6RBD101	M. RESISTOR CH 1/10W 100	1	
R4702	ERJ14YJ1R0	M. RESISTOR CH 1/4W 1.0	1	
R4704	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R4705	ERJ6RBD683	M. RESISTOR CH 1/10W 68K	1	
R4706	ERJ6RBD182	M. RESISTOR CH 1/10W 1.8K	1	
R4707	ERJ8GCYG101	M. RESISTOR CH 1/8W 100	1	
R4708	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R4710	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4712	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R4713-18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R4719, 20	ERJ6GEYJ2R2	M. RESISTOR CH 1/10W 2.2	2	
R4721-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4725	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4726	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4728	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4820-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R4901-05	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	5	
R4906	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4907	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4909, 10	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4911, 12	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4913, 14	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R4915, 16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R4917, 18	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4919	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4920, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
RY4101	VSY2070	RELAY	1	
RY4201	VSY2070	RELAY	1	
SW4701	VSS0367-02B	SWITCH	1	
T4701	VLT0623	TRANSFORMER	1	
TG4001	EYF6CU	TEST POINT	1	
TP4101-03	EYF6CU	TEST POINT	3	
TP4201-03	EYF6CU	TEST POINT	3	
TP4501	EYF6CU	TEST POINT	1	
TP4505	EYF6CU	TEST POINT	1	
TP4601, 02	EYF6CU	TEST POINT	2	
VR4102, 03	EVM7JGA00B14	V. RESISTOR 10K	2	
VR4104	EVM7JGA00B54	V. RESISTOR 50K	1	
VR4202, 03	EVM7JGA00B14	V. RESISTOR 10K	2	
VR4204	EVM7JGA00B54	V. RESISTOR 50K	1	
VR4301	EVM7JGA00B14	V. RESISTOR 10K	1	
VR4401	EVM7JGA00B14	V. RESISTOR 10K	1	
VR4501	EVM7JGA00B14	V. RESISTOR 10K	1	
VR4503	EVM7JGA00B54	V. RESISTOR 50K	1	
VR4701	EVM7JGA00B14	V. RESISTOR 10K	1	
X4601	VSX0140	CRYSTAL OSCILLATOR	1	
	■ VEP86271A	LCD P. C. BOARD	1 (RTL)	
C6502	ECEV0JV470Q	E. CAPACITOR CH6.3V 47U	1	
C6503	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6504	ECUM1C105KBW	C. CAPACITOR CH 16V 1U	1	
C6505-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C6508	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6510, 11	ECUX1H220JCVC	C. CAPACITOR CH 50V 22P	2	
C6512, 13	ECUX1H150JCVC	C. CAPACITOR CH 50V 15P	2	
C6525	ECEV1EV220Q	E. CAPACITOR CH 25V 22U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C101	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	VEP03E46C	C512	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C102	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP03E46C	C513	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C103-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	VEP03E46C	C514	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C108	ECST1EC106Z	T. CAPACITOR CH 25V 10U	1	VEP03E46C	C515	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C109	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	VEP03E46C	C516, 17	ECST1CC336Z	T. CAPACITOR CH 16V 33U	2	
C110	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	VEP03E46C	C518	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C111	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	VEP03E46C	C519	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C112	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	VEP03E46C	C520	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C113	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		C521	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C113	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	VEP03E46C	C522	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C114	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		C524	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C114	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	VEP03E46C	C525	ECST1CY225Z	T. CAPACITOR CH 16V 2.2U	1	
C115	ECEV1AN330Q	E. CAPACITOR CH 10V 33U	1		C526	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C115	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP03E46C	C527	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	
C116, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C528	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C118	ECEV1AN330Q	E. CAPACITOR CH 10V 33U	1		C529	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C201	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	VEP03E46C	C530	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C202	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP03E46C	C531	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C203	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	VEP03E46C	C532	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C204	YCK0150	C. CAPACITOR	1	VEP03E46C	C534	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C205	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	VEP03E46C	C535	ECST1CY225Z	T. CAPACITOR CH 16V 2.2U	1	
C206	ECUX1H050CCV	C. CAPACITOR CH 50V 0.5P	1	VEP03E46C	C536	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C207	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	VEP03E46C	C537	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	
C208	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1	VEP03E46C	C538	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C209	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	VEP03E46C	C539	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C210	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	VEP03E46C	C540	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C211	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	VEP03E46C	C541	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C212	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	VEP03E46C	C542	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C213, 14	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	VEP03E46C	C544	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C301	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	VEP03E46C	C545	ECST1CY225Z	T. CAPACITOR CH 16V 2.2U	1	
C303-07	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	5	VEP03E46C	C546	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C309, 10	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	VEP03E46C					
C311	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	VEP03E46C	D101	MA142K	DIODE	1	VEP03E46C
C401	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP03E46C	D102	MA704	DIODE	1	VEP03E46C
C401	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		D501	MA142K	DIODE	1	
C402	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	VEP03E46C					
C402	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		FL401	VLF1179	FILTER	1	
C403, 04	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2						
C406, 07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		IC1	TC7SH04FU	IC	1	VEP80A92A
C415, 16	ECST1CC336Z	T. CAPACITOR CH 16V 33U	2		IC1	TVHC74FT	IC	1	VEP80A92A
C417, 18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		IC2	TC7SH00FU	IC	1	VEP80A92A
C419	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1		IC2	TC7W74FU	IC	1	VEP80A92A
C420	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		IC3	TC7W08FU	IC	1	VEP80A92A
C421	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1		IC101	MC14053BD	IC	1	
C422	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		IC101	XC62AP5002P	IC	1	VEP03E46C
C423	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1		IC102	NJM062M	IC	1	VEP03E46C
C424	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		IC103	TC7W125FU	IC	1	VEP03E46C
C425	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		IC106	TC7SH08FU	IC	1	VEP03E46C
C426	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		IC201	UPC2384GA	IC	1	VEP03E46C
C428	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC202	XC62AP3002P	IC	1	VEP03E46C
C429	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		IC204	TC7SH08FU	IC	1	VEP03E46C
C430	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC301	C646183-104	IC	1	VEP03E46C
C431	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		IC302-05	TVHC541FT	IC	4	VEP03E46C
C432	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC306	TVHT541FT	IC	1	VEP03E46C
C436	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		IC309	TVHC74FT	IC	1	VEP03E46C
C437	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		IC311	UG10358B	IC	1	VEP03E46C
C441	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1		IC401	TC7SH08FU	IC	1	
C442	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		IC402	MC14053BD	IC	1	
C443	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1		IC403	AD817AR	IC	1	
C444	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		IC404	MC14053BD	IC	1	
C445	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1		IC405	AD826AR	IC	1	
C446	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC406	XC62DN5002P	IC	1	
C447	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		IC407	MC14053BD	IC	1	
C448	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		IC501	XC62AP5002P	IC	1	
C449	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		IC502	EL4583CS	IC	1	
C451-54	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4		IC503	TC7W14FU	IC	1	
C501	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		IC504-06	CXD1176Q	IC	3	
C502	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1						
C503	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		L101-03	VL00319K101	COIL	100UH	3 VEP03E46C
C504	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1		L104	VL00319K101	COIL	100UH	1
C505	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		L104	VL00319K101	COIL	100UH	1 VEP03E46C
C506	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		L201	VL00464K6R8	COIL	6.8UH	1 VEP03E46C
C507	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		L202	ELJNA1R5JF	COIL	1.5UH	1 VEP03E46C
C509	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		L203	VL00319K101	COIL	100UH	1 VEP03E46C
C511	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		L401	VL0P0145	COIL		1 VEP03E46C

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L401	VL00426J120	COIL 12UH	1		R343, 44	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	VEP03E46C
L402	VLP0145	COIL	1	VEP03E46C	R345	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	VEP03E46C
L404, 05	VL00319K101	COIL 100UH	2		R347	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	VEP03E46C
L406	VL00426J820	COIL 82UH	1		R351	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C
L407	VL00426J680	COIL 68UH	1		R353, 54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	VEP03E46C
L410	VL00426J820	COIL 82UH	1		R355-64	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	10	VEP03E46C
L411	VL00426J680	COIL 68UH	1		R401	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C
L413	VL00319K101	COIL 100UH	1		R402	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C
L501	VL00163J221	COIL 220UH	1		R402	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
L502	VL00319K101	COIL 100UH	1		R403	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
L503	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1		R404	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
L504-06	VL00319K101	COIL 100UH	3		R405	ERJ3RED750	M.RESISTOR CH 3W 75	1	
L602-11	VLP0155	COIL	10		R406	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
P1	VJP3657	CONNECTOR (MALE)	1		R407	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
P2	VJP3819E100	CONNECTOR (MALE)	1		R408	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
P3	VJP3358C012	CONNECTOR (MALE)	1		R409	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
P401	VJS3819E100	CONNECTOR (FEMALE)	1	VEP03E46C	R410, 11	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
Q105	2SB1218A-R	TRANSISTOR	1		R412	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
Q106	2SD1819A-R	TRANSISTOR	1		R413	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
Q401	2SB1218A-R	TRANSISTOR	1		R414	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
Q402	2SD1819A-R	TRANSISTOR	1		R415	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
Q403	2SA1532-B	TRANSISTOR	1		R416	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
Q404	2SD1819A-R	TRANSISTOR	1		R417	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
Q408, 09	2SB1218A-R	TRANSISTOR	2		R427	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
Q410	2SA1532-B	TRANSISTOR	1		R428	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
Q414, 15	2SB1218A-R	TRANSISTOR	2		R429	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
Q416	2SA1532-B	TRANSISTOR	1		R430	ERJ3RED750	M.RESISTOR CH 3W 75	1	
Q501	2SD1819A-R	TRANSISTOR	1		R431	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP80A92A	R432, 33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R101	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R434, 35	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R102	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	VEP03E46C	R436	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R103	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	VEP03E46C	R437	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R104, 05	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	VEP03E46C	R438, 39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R106	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	VEP03E46C	R440	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R107	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	VEP03E46C	R441	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R108	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R452	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R108, 09	ERJ6RBD151	M.RESISTOR CH 1/10W 150	2		R453	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R110	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R454	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R111	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R455	ERJ3RED750	M.RESISTOR CH 3W 75	1	
R112	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R456	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R112	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R457, 58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R113	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1		R459, 60	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R114	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		R461	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R462	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R116	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		R463, 64	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R121	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R465	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R124	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R466	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R126	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R501	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R502	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R203, 04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	VEP03E46C	R503	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R207	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	VEP03E46C	R504	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R208	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	VEP03E46C	R505	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R209-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3		R506	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R212	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R507	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R214	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	VEP03E46C	R508	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R215-18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	VEP03E46C	R509	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R219, 20	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	VEP03E46C	R510	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R221-23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	VEP03E46C	R513	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R301-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	VEP03E46C	R514	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R309-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	VEP03E46C	R516	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	VEP03E46C	R517	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R318	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R518	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R319, 20	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	VEP03E46C	R519	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R321	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R520, 21	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	2	
R322	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	VEP03E46C	R522	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R323	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R523	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R324-26	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	VEP03E46C	R524	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R329-32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	VEP03E46C	R525	VRE006607103	M.RESISTOR CH 1/10W 10K	1	
R335	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	VEP03E46C	R526, 27	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	2	
R337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	VEP03E46C	R528	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R338	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	VEP03E46C	R529	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R339-41	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	VEP03E46C	R530	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
					R531	VRE006607103	M.RESISTOR CH 1/10W 10K	1	
					R532, 33	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	2	
					R601-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG101	EYF6CU	TEST POINT	1		C1071	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	
TP101,02	EYF6CU	TEST POINT	2	VEP03E46C	C1072	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
TP301-03	EYF6CU	TEST POINT	3	VEP03E46C	C1073	ECUX1H183KBV	C. CAPACITOR CH 50V 0.018U	1	
TP501-03	EYF6CU	TEST POINT	3		C1074	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
VR401	EVM7JGA00B23	V. RESISTOR 2K	1		C1076	ECEA1HU2R2	E. CAPACITOR 50V 2.2U	1	
VR403,04	EVM7JGA00B23	V. RESISTOR 2K	2		C1079	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
VR406,07	EVM7JGA00B23	V. RESISTOR 2K	2		C1085	VCEA1CAP101	E. CAPACITOR 16V 100U	1	
VR501	EVM7JGA00B13	V. RESISTOR 1K	1		C1086	VCEA1CAP330	C. CAPACITOR 16V 33U	1	
					C1087	ECEV1EV1000	E. CAPACITOR CH 25V 10U	1	
					C1088-90	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
					C1092-94	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
X101	VSX0677	CRYSTAL OSCILLATOR	1	VEP03E46C					
		MISCELLANEOUS			D1001	MA142WK	DIODE	1	
					D1002-05	NS003A04	DIODE	4	
					D1015,16	NS003A04	DIODE	2	
					D1018	NS003A04	DIODE	1	
	VMS5528	P.C.B. POST	3		D1019-22	MA142WK	DIODE	4	
	XYN26+C35	SCREW	6		D1028	NS003A04	DIODE	1	
	XSB2+6FX	SCREW	3		D1029	MA8100-H	DIODE	1	
	XNG2E	NUT	1		D1030	NS003A04	DIODE	1	
	VGO4616	BOARD NUMBER PLATE (1)	1		D1032	MA142WK	DIODE	1	
					D1034	NS003A04	DIODE	1	
					IC1001-04	TL1451CNS	IC	4	
	■ VEP81180D	POWER P. C. BOARD	1	(RTL)	L1001	VL00856	COIL	1	
					L1002	VL00319K100	COIL 10UH	1	
					L1003	VL00441K1R0	COIL 1.0UH	1	
					L1004	VL00821	COIL	1	
C1001,02	VCEA1DAP680	E. CAPACITOR 20V 68U	2		L1005	VL00407100M	COIL 10UH	1	
C1003	ECEV1EV1000	E. CAPACITOR CH 25V 10U	1		L1006	VL00441K1R0	COIL 1.0UH	1	
C1004	ECEV0JN2200	E. CAPACITOR CH 6.3V 22U	1		L1007	VL00642	COIL	1	
C1005	VCEA0JSC220M	E. CAPACITOR 6.3V 22U	1		L1008	VL00857	COIL	1	
C1006	VCEA0JSC100M	E. CAPACITOR 6.3V 10U	1		L1009	VL00441K1R0	COIL 1.0UH	1	
C1007	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		L1010	VL00765	COIL	1	
C1008	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		L1011	VL00417	COIL 10UH	1	
C1009	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		L1015	VL00441K1R0	COIL 1.0UH	1	
C1010	ECUM1H123KBV	C. CAPACITOR CH 50V 0.012U	1		L1016	VL00642	COIL	1	
C1011	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		L1017	VL00613M100	COIL 10UH	1	
C1012	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		L1018	VL00441K1R0	COIL 1.0UH	1	
C1013	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		L1019	VL00642	COIL	1	
C1014	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		L1020	VL00613M100	COIL 10UH	1	
C1015	VCEA1DAP101	E. CAPACITOR 20V 100U	1		L1021	VL00441K1R0	COIL 1.0UH	1	
C1017	VCEA0JAP151	E. CAPACITOR 6.3V 150U	1		L1024	VL00642	COIL	1	
C1018	VCEA0JAP470	C. CAPACITOR 6.3V 47P	1		L1025	VL00613M100	COIL 10UH	1	
C1019	VCEA1DAP680	E. CAPACITOR 20V 68U	1		L1026-32	VLP0353	COIL	7	
C1021	VCEA1AAP101	E. CAPACITOR 10V 100U	1						
C1022	VCEA1AAP330	E. CAPACITOR 10V 33U	1		P1001	VJP1244T	CONNECTOR (MALE) 4P	1	
C1023	VCEA0JSC220M	E. CAPACITOR 6.3V 22U	1		P1002	VJP2739B013	CONNECTOR (MALE)	1	
C1024	VCEA0JSC100M	E. CAPACITOR 6.3V 10U	1						
C1026	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		Q1001	2SD1820A-R	TRANSISTOR	1	
C1027,28	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		Q1002	2SB1219A-R	TRANSISTOR	1	
C1029	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		Q1003	2SJ279S	TRANSISTOR	1	
C1030	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		Q1004	2SD1820A-R	TRANSISTOR	1	
C1031	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1		Q1005	2SB1219A-R	TRANSISTOR	1	
C1032	VCEA1DAP680	E. CAPACITOR 20V 68U	1		Q1006	2SJ279S	TRANSISTOR	1	
C1034	VCEA1AAP101	E. CAPACITOR 10V 100U	1		Q1007	2SD1820A-R	TRANSISTOR	1	
C1045	VCEA1AAP330	E. CAPACITOR 10V 33U	1		Q1008	2SB1219A-R	TRANSISTOR	1	
C1050	VCEA0JSC220M	E. CAPACITOR 6.3V 22U	1		Q1009	2SJ279S	TRANSISTOR	1	
C1051	VCEA0JSC100M	E. CAPACITOR 6.3V 10U	1		Q1015	2SD1820A-R	TRANSISTOR	1	
C1052	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		Q1016	2SB1219A-R	TRANSISTOR	1	
C1053	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1		Q1017	2SJ279S	TRANSISTOR	1	
C1054,55	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		Q1018	2SD1820A-R	TRANSISTOR	1	
C1056	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1		Q1019	2SB1219A-R	TRANSISTOR	1	
C1057	ECUM1C224KBM	C. CAPACITOR CH 16V 0.22U	1		Q1020	2SJ279S	TRANSISTOR	1	
C1058	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		Q1024	2SD1820A-R	TRANSISTOR	1	
C1059	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		Q1025	2SB1219A-R	TRANSISTOR	1	
C1060	VCEA1DAP680	E. CAPACITOR 20V 68U	1		Q1026	2SJ279S	TRANSISTOR	1	
C1063	VCEA1AAP221	E. CAPACITOR 10V 220U	1		Q1027	2SD1820A-R	TRANSISTOR	1	
C1064	VCEA1AAP330	E. CAPACITOR 10V 33U	1		Q1028	XN4401	TRANSISTOR-RESISTOR	1	
C1065	VCEA1DAP101	E. CAPACITOR 20V 100U	1		Q1029	2SD1820A-R	TRANSISTOR	1	
C1067	VCEA1AAP101	E. CAPACITOR 10V 100U	1		Q1030	XN4401	TRANSISTOR-RESISTOR	1	
C1068	VCEA1AAP330	E. CAPACITOR 10V 33U	1		Q1031	2SD1820A-R	TRANSISTOR	1	
C1069	VCEA0JSC220M	E. CAPACITOR 6.3V 22U	1		Q1032	XN4401	TRANSISTOR-RESISTOR	1	
C1070	VCEA0JSC100M	E. CAPACITOR 6.3V 10U	1		Q1033	2SD1820A-R	TRANSISTOR	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1042	XN4401	TRANSISTOR-RESISTOR	1	
Q1043	2SD1820A-R	TRANSISTOR	1	
Q1044	XN4401	TRANSISTOR-RESISTOR	1	
Q1045	2SD1820A-R	TRANSISTOR	1	
Q1046	XN4401	TRANSISTOR-RESISTOR	1	
Q1047	2SD1820A-R	TRANSISTOR	1	
Q1051	2SD1820A-R	TRANSISTOR	1	
QR1001	UN5112	TRANSISTOR-RESISTOR	1	
QR1002-04	UN5211	TRANSISTOR-RESISTOR	3	
QR1006-08	UN5211	TRANSISTOR-RESISTOR	3	
QR1010	UN5211	TRANSISTOR-RESISTOR	1	
QR1017	2SD1820A-R	TRANSISTOR	1	
QR1018	UN5111	TRANSISTOR-RESISTOR	1	
R1001	ERJ3RBD153	M. RESISTOR CH 3W 15K	1	
R1002	ERJ3RBD472	M. RESISTOR CH 1/10W 4.7K	1	
R1003	ERJ3RBD223	M. RESISTOR CH 3W 22K	1	
R1004-07	ERJ3RBD183	M. RESISTOR CH 3W 18K	4	
R1008	ERJ3RBD622	M. RESISTOR CH 3W 6.2K	1	
R1009	ERJ3RBD133	M. RESISTOR CH 3W 13K	1	
R1010	ERJ3RBD332	M. RESISTOR CH 3W 3.3K	1	
R1011, 12	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	
R1013	ERJ3RBD472	M. RESISTOR CH 1/10W 4.7K	1	
R1014	ERJ3RBD182	M. RESISTOR CH 3W 8.2K	1	
R1015	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1016	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1017	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1019	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1020	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1021	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1023-26	ERJ3RBD183	M. RESISTOR CH 3W 18K	4	
R1030, 31	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	
R1032	ERJ3RBD472	M. RESISTOR CH 1/10W 4.7K	1	
R1033	ERJ3RBD182	M. RESISTOR CH 3W 8.2K	1	
R1034	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1035	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1045	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R1048	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1049	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1050-53	ERJ3RBD183	M. RESISTOR CH 3W 18K	4	
R1055	ERJ3RBD153	M. RESISTOR CH 3W 15K	1	
R1056	ERJ3RBD332	M. RESISTOR CH 3W 3.3K	1	
R1057	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R1058, 59	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R1060	ERJ3RBD512	M. RESISTOR CH 3W 5.1K	1	
R1061	ERJ3RBD333	M. RESISTOR CH 3W 33K	1	
R1062	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1063	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1064	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1067	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1068	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1069	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1071-74	ERJ3RBD183	M. RESISTOR CH 3W 18K	4	
R1075	ERJ3RBD303	M. RESISTOR CH 3W 30K	1	
R1076	ERJ3RBD392	M. RESISTOR CH 3W 3.9K	1	
R1077	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1078	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1087	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1088	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1089	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1091	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1092	ERJ6GEYJ120	M. RESISTOR CH 1/10W 12	1	
R1093	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1094	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R1095	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	1	
R1096	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R1097	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1098	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1099	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R1100	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	1	
R1101	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R1102	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1103	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1104	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	

[illegible]

AJ-D90P

VEP80A84A / VEP80A83A / VEP00W08B / VEP80A66A / VEP80A67A / VEP80A68A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	■ VEP80A83A	POWER SW P.C. BOARD	1 (RTL)	
P9601	VJP3125B002	CONNECTOR (MALE)	1	
SW9601	VST0129	SWITCH	1	
	■ VEP00W08B	HEAD PHONE P.C. BOARD	1 (RTL)	
C9201,02	ECKF1H102ZF	C. CAPACITOR 50V 1000P	2	
J9201	VJJ0522	JACK	1	
L1,L2	VLP0147	COIL	2	
P9201	VJP1608T	CONNECTOR (MALE)	1	
	■ VEP80A66A	REAR FLEX P.C. BOARD	1 (RTL)	
P1	VJS3807E040	CONNECTOR (FEMALE)	1	
P2	VJS3806E040	CONNECTOR (FEMALE)	1	
	■ VEP80A67A	VIDEO FLEX P.C. BOARD	1 (RTL)	
P1	VJS3806E160	CONNECTOR (FEMALE)	1	
P2	VJP4106A160L	CONNECTOR (MALE)	1	
	■ VEP80A68A	MAIN FLEX P.C. BOARD	1 (RTL)	
P11,12	VJS3806E160	CONNECTOR (FEMALE)	2	